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In your requests please include the following reference number 78EE117C99-1846024295

Contents

1.1 bzip2 1.0.4
1.1.1 Available under license
1.2 ncurses 5.6
1.2.1 Available under license
1.3 ncurses 5.7
1.3.1 Available under license
1.4 libjpeg 6b
1.4.1 Notifications
1.4.2 Available under license
1.5 reportlab 2.4
1.5.1 Available under license
1.6 lua 5.1.5
1.6.1 Available under license
1.7 apache-log4j 1.2.17
1.7.1 Available under license
1.8 slf4j 1.7.5
1.8.1 Available under license
1.9 resourcelocator 1.0.1
1.9.1 Available under license
1.10 libpcap 1.4.0
1.10.1 Available under license
1.11 bzip2 1.0.6
1.11.1 Available under license
1.12 commons-collections 4.0
1.12.1 Available under license
1.13 gnu-crypto 2.0.1

1.13.1 Available under license
1.14 ncurses 5.9
1.14.1 Available under license
1.15 apr-util 1.5.4
1.15.1 Available under license
1.16 open-ldap 2.4.40
1.16.1 Available under license
1.17 net-snmp 5.7.3
1.17.1 Available under license
1.18 guava 18.0
1.18.1 Available under license
1.19 libxml2 2.9.2
1.19.1 Available under license
1.20 xalan 2.7.2
1.20.1 Available under license
1.21 miglayout 3.5.5
1.21.1 Available under license
1.22 commons-collections 3.2.2
1.22.1 Available under license
1.23 taglibs-standard-spec 1.2.5
1.23.1 Available under license
1.24 ldns 1.6.17
1.24.1 Available under license
1.25 accessors-smart 1.1
1.25.1 Available under license
1.26 dbus-glib 0.108
1.26.1 Available under license
1.27 libpcap 1.8.1
1.27.1 Available under license
1.28 taglibs-standard 1.2.5
1.28.1 Available under license
1.29 glib 2.50.3
1.29.1 Available under license
1.30 commons-io 1.3.2
1.30.1 Available under license
1.31 bison 3.0.4
1.31.1 Available under license
1.32 gdbm 1.11
1.32.1 Available under license

1.33 urllib3 1.22
1.33.1 Notifications
1.33.2 Available under license
1.34 enum34 1.1.6
1.34.1 Available under license
1.35 slf4j 1.7.16
1.35.1 Available under license
1.36 jetty 9.2.13.v20150730
1.36.1 Available under license
1.37 ecj 3.12.3
1.37.1 Available under license
1.38 libxslt 1.1.32
1.38.1 Available under license
1.39 zjsonpatch 0.2.1
1.39.1 Available under license
1.40 sqlite 3.22.0
1.40.1 Available under license
1.41 apr-util 1.6.1
1.41.1 Available under license
1.42 tcsh 6.20.00
1.42.1 Available under license
1.43 xmlunit-core 2.3.0
1.43.1 Available under license
1.44 binutils 2.30
1.44.1 Available under license
1.45 curl 7.60.0
1.45.1 Available under license
1.46 lzo 2.10
1.46.1 Available under license
1.47 libxml2 2.9.7
1.47.1 Available under license
1.48 gdb 8.1
1.48.1 Available under license
1.49 glib 2.46.2
1.49.1 Available under license
1.50 libtool 2.4.6
1.50.1 Available under license
1.51 libxml2 2.9.8
1.51.1 Available under license

1.52 tomcat-annotations-api 8.5.32
1.52.1 Available under license
1.53 ncurses 6.0
1.53.1 Available under license
1.54 lua 5.3.4
1.54.1 Available under license
1.55 libidn 1.33
1.55.1 Available under license
1.56 httpcomponents-core 4.4.10
1.56.1 Available under license
1.57 jaxb-core 2.3.0
1.58 zlib 1.2.3
1.58.1 Available under license
1.59 hk2-utils 2.5.0
1.59.1 Available under license
1.60 hk2-locator 2.5.0
1.60.1 Available under license
1.61 jersey-common 2.28
1.61.1 Available under license
1.62 hk2-api 2.5.0
1.62.1 Available under license
1.63 jersey-client 2.28
1.63.1 Available under license
1.64 jersey-container-servlet-core 2.28
1.64.1 Available under license
1.65 aopalliance-repackaged 2.5.0
1.66 jersey-server 2.28
1.66.1 Available under license
1.67 jersey-media-jaxb 2.28
1.67.1 Available under license
1.68 apr 1.5.1
1.68.1 Available under license
1.69 hikaricp-java7 2.4.13
1.69.1 Available under license
1.70 tomcat 8.5.32
1.70.1 Available under license
1.71 commons-beanutils 1.9.4
1.71.1 Available under license
1.72 python-setuptools 41.2.0

1.72.1 Available under license
1.73 zlib 1.2.8
1.73.1 Available under license
1.74 expat 2.1.0
1.74.1 Available under license
1.75 zlib 1.1.3
1.75.1 Available under license
1.76 zlib 1.0.4
1.76.1 Available under license
1.77 expat 2.0.1
1.77.1 Available under license
1.78 expat 2.0.0
1.78.1 Available under license
1.79 expat 2.2.0
1.79.1 Available under license
1.80 tcpdump 4.9.2
1.80.1 Available under license
1.81 sbsigntool 1.3
1.81.1 Available under license
1.82 flex 2.5.37
1.82.1 Available under license
1.83 expat 2.2.5
1.83.1 Available under license
1.84 sudo 1.8.22
1.84.1 Available under license
1.85 libuv 1.19.2
1.85.1 Available under license
1.86 gettext 0.19.8.1
1.86.1 Available under license
1.87 expat 1.95.6
1.87.1 Available under license
1.88 stunnel 5.03
1.88.1 Available under license
1.89 lua-cjson 2.1.0
1.89.1 Available under license
1.90 gmp 6.1.2
1.90.1 Available under license
1.91 apr 1.6.3
1.91.1 Available under license

1.92 commons-daemon 1.1.0
1.92.1 Available under license
1.93 stax-api 1.0.1
1.93.1 Available under license
1.94 jetty-util 9.4.16.v20190411
1.94.1 Available under license
1.95 jetty-servlets 9.4.16.v20190411
1.95.1 Available under license
1.96 idna 2.6
1.96.1 Available under license
1.97 json-glib 1.2.8
1.98 sqlite 3.20.0
1.98.1 Available under license
1.99 cvs 1.11.22
1.99.1 Available under license
1.100 libnet 1.2
1.100.1 Available under license
1.101 libarchive 3.3.2
1.101.1 Available under license
1.102 gdb 6.1.1
1.102.1 Available under license
1.103 libffi 3.2.1
1.103.1 Available under license
1.104 ipmi-tool 1.8.18
1.104.1 Available under license
1.105 tcl 8.5.19
1.105.1 Available under license
1.106 libnettle6 3.4
1.106.1 Available under license
1.107 lua 5.2.4
1.108 make 4.2
1.108.1 Available under license
1.109 m4 1.4.18
1.109.1 Available under license
1.110 jansson 2.11
1.110.1 Available under license
1.111 python-requests 2.22.0
1.111.1 Available under license
1.112 urllib3 1.25.3

1.112.1 Notifications
1.112.2 Available under license
1.113 xerces-j 2.7.1
1.113.1 Available under license
1.114 readline 7.0
1.114.1 Available under license
1.115 binutils 2.29.51
1.115.1 Available under license
1.116 bash 4.4.19
1.116.1 Available under license
1.117 bolt 1.3.1
1.117.1 Available under license
1.118 bean-validation-api 2.0.1.Final
1.118.1 Available under license
1.119 hamcrest 1.3
1.119.1 Available under license
1.120 google-api-python-client 1.7.6
1.120.1 Available under license
1.121 postgre-sql 7.4.2
1.121.1 Available under license
1.122 gmp 5.1.3
1.122.1 Available under license
1.123 httpcomponents-client 4.5.6
1.123.1 Available under license
1.124 jsp 2.3.FR
1.124.1 Available under license
1.125 xz 5.0.5
1.125.1 Available under license
1.126 xz 5.2.3
1.126.1 Available under license
1.127 nspr 4.19
1.127.1 Available under license
1.128 sqlite 3.15.2
1.128.1 Available under license
1.129 python-setuptools 39.0.1
1.129.1 Available under license
1.130 icu 36
1.130.1 Available under license
1.131 json-c 0.13

1.131.1 Available under license
1.132 protobuf 3.5.1.1
1.132.1 Available under license
1.133 libunwind 20170615
1.133.1 Available under license
1.134 libunistring 0.9.9
1.134.1 Available under license
1.135 antlr 4.5.1-1
1.135.1 Available under license
1.136 python-requests 2.18.4
1.136.1 Available under license
1.137 go-cache 2.1.0
1.137.1 Available under license
1.138 llvm 6.0.0
1.138.1 Available under license
1.139 bouncycastle-fips 1.0.2
1.139.1 Available under license
1.140 serf 1.3.9-3
1.140.1 Available under license
1.141 snake-yaml 1.26
1.141.1 Available under license
1.142 logrus 1.5.0
1.142.1 Available under license
1.143 ipmiutil 1.8.18
1.143.1 Available under license
1.144 mpclib 1.0.2
1.144.1 Available under license
1.145 properties 1.8.1
1.145.1 Available under license
1.146 quartz 2.3.2
1.146.1 Available under license
1.147 mitchellh-mapstructure 1.3.0
1.147.1 Available under license
1.148 goleveldb 1.0.0
1.148.1 Available under license
1.149 cobra 1.0.0
1.149.1 Available under license
1.150 go-playground-validator 10.2.0
1.150.1 Available under license

1.151 gorilla 1.7.4
1.151.1 Available under license
1.152 c3p0 0.9.5.4
1.152.1 Available under license
1.153 openssl 0.9.8r
1.153.1 Available under license
1.154 libffi 3.2.1-2
1.154.1 Available under license
1.155 popt 1.16-2
1.155.1 Available under license
1.156 d-bus 1.10.16
1.156.1 Available under license
1.157 mhash 0.9.9.9-4
1.157.1 Available under license
1.158 libxml2 2.9.8-1
1.158.1 Available under license
1.159 gnutls 3.5.18
1.159.1 Available under license
1.160 thrift 0.13.0
1.160.1 Available under license
1.161 go-shellwords 1.0.3
1.161.1 Available under license
1.162 smartmontools 6.6
1.162.1 Available under license
1.163 redis 5.0.5
1.163.1 Available under license
1.164 pycparser 2.18
1.164.1 Available under license
1.165 ntp 4.2.8p15
1.165.1 Available under license
1.166 jersey 2.28
1.166.1 Available under license
1.167 isc 2.0
1.167.1 Available under license
1.168 libidn 2.0.4
1.168.1 Available under license
1.169 jackson 2.6.1
1.169.1 Available under license
1.170 jackson-databind 2.6.1

1.170.1 Available under license
1.171 jackson 2.11.1
1.171.1 Available under license
1.172 jackson-databind 2.11.1
1.172.1 Available under license
1.173 nghttp2 1.31.1
1.173.1 Available under license
1.174 scons 3.0.1
1.174.1 Available under license
1.175 bouncycastle-fips 1.0.3
1.175.1 Available under license
1.176 nss 3.37.1
1.176.1 Available under license
1.177 cpp 6.4.0
1.177.1 Available under license
1.178 libgpg-error 1.28
1.178.1 Available under license
1.179 gc 6.4.0
1.179.1 Available under license
1.180 commons-lang3 3.1
1.180.1 Available under license
1.181 jackson-jaxrs-base 2.9.9
1.181.1 Available under license
1.182 libjpeg 8d
1.182.1 Available under license
1.183 openssh 7.5p1
1.183.1 Notifications
1.183.2 Available under license
1.184 mhash 0.9.9
1.184.1 Available under license
1.185 jetty 9.4.16.v20190411
1.185.1 Available under license
1.186 colorama 0.4.1
1.186.1 Available under license
1.187 traceback2 1.4.0
1.187.1 Available under license
1.188 linecache 1.0.0
1.188.1 Available under license
1.189 linenoise 1.0

1.189.1 Available under license
1.190 ordereddict 1.1
1.190.1 Available under license
1.191 docutils 0.14
1.191.1 Available under license
1.192 packaging 19.0
1.192.1 Available under license
1.193 six 1.11.0
1.193.1 Available under license
1.194 libconfig 1.4.9
1.194.1 Available under license
1.195 nghttp2 1.42.0
1.195.1 Available under license
1.196 viper 1.6.3
1.196.1 Available under license
1.197 jackson-xc 2.9.8
1.197.1 Available under license
1.198 openssl 1.1.1i
1.198.1 Available under license
1.199 libarchive 3.1.2
1.199.1 Available under license
1.200 openssh 7.5
1.200.1 Notifications
1.200.2 Available under license
1.201 libarchive 3.3.1
1.201.1 Available under license
1.202 python3-asn1crypto 0.22.0
1.202.1 Available under license
1.203 snowball-stemmer 1.2.0
1.203.1 Available under license
1.204 bind 9.16.8
1.204.1 Available under license
1.205 dash 0.5.9.1
1.205.1 Available under license
1.206 less 458
1.206.1 Available under license
1.207 commons-lang3 2.6
1.207.1 Available under license
1.208 asm 5.0.3

1.208.1 Available under license
1.209 commons-logging 1.2
1.209.1 Available under license
1.210 bcel 2.7.2
1.210.1 Available under license
1.211 commons-lang3 3.4
1.211.1 Available under license
1.212 jakarta-annotation-api 1.3.4
1.212.1 Available under license
1.213 javassist 3.22.0-CR2
1.213.1 Available under license
1.214 commons-codec 1.9
1.214.1 Available under license
1.215 javax-ws-rs-api 2.0
1.215.1 Available under license
1.216 go-yaml 2.4.0
1.216.1 Available under license
1.217 clang 6.0.0
1.217.1 Available under license
1.218 jakarta-ws-rs-api 2.1.5
1.218.1 Available under license
1.219 tokyo-cabinet 1.4.48
1.219.1 Available under license
1.220 jersey-entity-filtering 2.28
1.220.1 Available under license
1.221 jetty-continuation 9.4.16.v20190411
1.221.1 Available under license
1.222 jersey-hk2 2.28
1.222.1 Available under license
1.223 jersey-media-sse 2.28
1.223.1 Available under license
1.224 txw2 2.3.0
1.224.1 Available under license
1.225 jakarta-inject 2.5.0
1.225.1 Available under license
1.226 jersey-media-json-jackson 2.28
1.226.1 Available under license
1.227 xmlunit-legacy 2.3.0
1.227.1 Available under license

1.228 jetty-continuation 9.2.13.v20150730
1.228.1 Available under license
1.229 wiremock-standalone 2.5.1
1.229.1 Available under license
1.230 httpcomponents-core 4.4.3
1.230.1 Available under license
1.231 libdouble-conversion 3.0.0
1.231.1 Available under license
1.232 ldb 1.2.840
1.232.1 Available under license
1.233 gdbm 1.13
1.233.1 Available under license
1.234 tdb 1.4.3
1.234.1 Available under license
1.235 diffutils 2.8
1.235.1 Available under license
1.236 keypoint-pngencoder 1.5
1.236.1 Available under license
1.237 tomcat-api 8.5.32
1.237.1 Available under license
1.238 chardet 3.0.4
1.238.1 Available under license
1.239 tokyo-cabinet 1.4.47
1.239.1 Available under license
1.240 lucene 2.4.1
1.240.1 Available under license
1.241 jackson 1.0.1
1.241.1 Available under license
1.242 ucl 1.03
1.242.1 Available under license
1.243 tomcat-catalina-ant 8.5.32
1.243.1 Available under license
1.244 tomcat-juli 8.5.32
1.244.1 Available under license
1.245 libgcrypt 1.8.2
1.245.1 Available under license
1.246 libiconv 1.14_11
1.246.1 Available under license
1.247 tomcat-el-api 8.5.32

1.247.1 Available under license
1.248 jackson-mapper-asl 1.0.1
1.248.1 Available under license
1.249 tomcat-jdbc 8.5.32
1.249.1 Available under license
1.250 tomcat-dbcp 8.5.32
1.250.1 Available under license
1.251 tomcat-i18n-es 8.5.32
1.251.1 Available under license
1.252 tomcat-jasper-el 8.5.32
1.252.1 Available under license
1.253 mpfr 3.1.6
1.253.1 Available under license
1.254 tomcat-tribes 8.5.32
1.254.1 Available under license
1.255 tcp-wrappers 7.6.24
1.255.1 Available under license
1.256 tomcat-catalina 8.5.32
1.256.1 Available under license
1.257 tomcat-coyote 8.5.32
1.257.1 Available under license
1.258 trove4j 2.1.0
1.258.1 Available under license
1.259 tokyo-cabinet 1.2.11
1.259.1 Available under license
1.260 tomcat-websocket 8.5.32
1.260.1 Available under license
1.261 ecj 4.5
1.261.1 Available under license
1.262 tomcat-jasper 8.5.32
1.262.1 Available under license
1.263 libpkit 0.23.10
1.263.1 Available under license
1.264 tomcat-storeconfig 8.5.32
1.264.1 Available under license
1.265 tomcat-jni 8.5.32
1.265.1 Available under license
1.266 tomcat-jsp-api 8.5.32
1.266.1 Available under license

1.267 tomcat-jaspic-api 8.5.32
1.267.1 Available under license
1.268 tomcat-i18n-ja 8.5.32
1.268.1 Available under license
1.269 snowball 1.2.0
1.269.1 Available under license
1.270 tomcat-websocket-api 8.5.32
1.270.1 Available under license
1.271 tomcat-util-scan 8.5.32
1.271.1 Available under license
1.272 tomcat-i18n-fr 8.5.32
1.272.1 Available under license
1.273 berkeley-db 5.3.28
1.273.1 Available under license
1.274 ecj 4.6.3
1.274.1 Available under license
1.275 ip-address 1.0.19
1.275.1 Available under license
1.276 pbr 3.1.1
1.276.1 Available under license
1.277 ply 3.11
1.277.1 Available under license
1.278 pyopenssl 17.5.0
1.278.1 Available under license
1.279 pytz 2018.3
1.279.1 Available under license
1.280 uritemplate 3.0.0
1.280.1 Available under license
1.281 python-certifi 2018.1.18
1.281.1 Available under license
1.282 cffi 1.11.2
1.282.1 Available under license
1.283 setuptools-scm 1.15.5
1.283.1 Available under license
1.284 sphinxcontrib-websupport 1.0.1
1.284.1 Available under license
1.285 godspeed-rpc 1.0.0-000
1.285.1 Available under license
1.286 pystemmer 1.3.0

1.286.1 Available under license

1.287 typing 3.6.4

1.287.1 Available under license

1.288 pytest-runner 2.11.1

1.288.1 Available under license

1.289 markupsafe 1.0

1.289.1 Available under license

1.290 jinja2 2.10

1.290.1 Available under license

1.291 rfc3986 1.3.2

1.291.1 Available under license

1.292 pygments 2.2.0

1.292.1 Available under license

1.293 alabaster 0.7.6

1.293.1 Available under license

1.294 python-babel 2.5.1

1.294.1 Available under license

1.295 go-toml 1.9.0

1.295.1 Available under license

1.296 x-crypto 1.15.10

1.296.1 Available under license

1.297 x-text 1.15.10

1.297.1 Available under license

1.298 avahi 0.6

1.298.1 Available under license

1.299 json-smart 2.2.1

1.299.1 Available under license

1.300 tevent 0.10.2

1.300.1 Available under license

1.301 talloc 2.3.1

1.301.1 Available under license

1.302 libcxx 6.0.0

1.302.1 Available under license

1.303 nginx 1.12.1

1.303.1 Available under license

1.304 coverage 3.6

1.304.1 Available under license

1.305 libdwarf 20161124

1.305.1 Available under license

1.306 cython 0.15.1
1.306.1 Available under license
1.307 image-size 0.7.1
1.307.1 Available under license
1.308 pep517 0.5.0
1.308.1 Available under license
1.309 pcre 10.21
1.309.1 Available under license
1.310 sphinx 1.6.5
1.310.1 Available under license
1.311 dom 1.0
1.311.1 Available under license
1.312 jackson-annotations 2.11.1
1.312.1 Available under license
1.313 stateless4j 2.5.0
1.313.1 Available under license
1.314 jackson-dataformat-yaml 2.11.2
1.314.1 Available under license
1.315 mchange-commons-java 0.2.15
1.315.1 Available under license
1.316 jackson-jaxrs 2.9.9
1.316.1 Available under license
1.317 jopt-simple 4.9
1.317.1 Available under license
1.318 lasso 2.4.1
1.318.1 Available under license
1.319 poco 1.8.0.1
1.319.1 Available under license
1.320 boost 1.66
1.320.1 Available under license
1.321 elfutils 0.170-1
1.321.1 Available under license
1.322 hiredis 0.13
1.322.1 Available under license
1.323 libedit 3.1-20170329-1
1.323.1 Available under license
1.324 cjson 1.7.5
1.324.1 Available under license
1.325 readline 7.0.3-1

1.325.1 Available under license

1.326 golang 1.15.10

1.326.1 Available under license

1.327 jackson-annotations 2.6.1

1.327.1 Available under license

1.328 jetty-webapp 9.2.13.v20150730

1.328.1 Available under license

1.329 jetty-security 9.2.13.v20150730

1.329.1 Available under license

1.330 jetty-util 9.2.13.v20150730

1.330.1 Available under license

1.331 jetty-servlets 9.2.13.v20150730

1.331.1 Available under license

1.332 jetty-xml 9.2.13.v20150730

1.332.1 Available under license

1.333 heimdall 1.0.0-000

1.333.1 Available under license

1.334 external-auth 1.0.0-000

1.334.1 Available under license

1.335 javax-annotation-api 1.3.2

1.335.1 Available under license

1.336 aop-alliance 2.5.0

1.336.1 Available under license

1.337 openssl 1.0.2zd

1.337.1 Available under license

1.338 pycrypto 2.0.1

1.338.1 Available under license

1.339 fpconst 0.7.2

1.339.1 Available under license

1.340 pyrex 0.9.5.1a

1.340.1 Available under license

1.341 godspeed_godlib 1.0

1.341.1 Available under license

1.342 soappy 0.12.0

1.342.1 Available under license

1.343 godspeed_ui_shared 1.0

1.343.1 Available under license

1.344 webtapd 1.0

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1.2 ncurses 5.6

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DOCUMENTATION
ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
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Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
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documentation:
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filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and

remarkably high compression levels are possible if you can tolerate a
low-quality image. For more details, see the references, or just experiment
with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting
the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application. We have also included
"jpegtran", a utility for lossless transcoding between different JPEG
processes, and "rdjpgcom" and "wrjpgcom", two simple applications for
inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

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by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is

available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't
have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.

It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.
(For example, none
of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format

has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without
sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.5 reportlab 2.4

1.5.1 Available under license :

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

   Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets
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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing
a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and subsituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the
XFree86
core server) has other mechanisms for font substitution.

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1.6 lua 5.1.5

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1.13 gnu-crypto 2.0.1

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1.14 ncurses 5.9

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1.15 apr-util 1.5.4

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1.18 guava 18.0

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Last revised by Reagle $Date: 2005/06/03 22:49:13 $
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```

1.21 miglayout 3.5.5

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*   Date: 2006-sep-08
*/

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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/LayoutUtil.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/SwingComponentWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/MigLayout.java
*
 /miglayout-3-5-5-sources-jar/net/miginfocom/layout/BoundSize.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/demo/SwtDemo.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/Grid.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/SwingContainerWrapper.java
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*
/miglayout-3-5-5-sources-jar/net/miginfocom/layout/ContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/AC.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/PlatformDefaults.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/IDEUtil.java
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* @author Mikael Grev, MiG InfoCom AB
* Date: 2006-sep-08
*/
/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and will not
 * affect the flow or grid positions. The positioning is relative to the parent
and can not (as padding) be used
 * to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>.
 * <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1
 * and x2 will just absolutely positions the component.
 * <p>
 * Note that {@link #setBoundsInGrid(boolean)} changes the interpretation of thisproperty slightly.
 * <p>
 * For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at www.migcomponents.com.
 * @return The current value as a new array, free to modify.
 */

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*
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* @author Mikael Grev, MiG InfoCom AB
* Date: 2006-sep-08
*/
/** Returns the gaps as pixel values.
  * @param parent The parent. Used to get the pixel values.
  * @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
  * @param
 refSize The reference size used to get the pixel sizes.
  * @param before IF it is the gap before rather than the gap after to return.
  * @return The [min,preferred,max] sizes for the specified gap. Uses {@link net.miginfocom.layout.LayoutUtil#NOT_SET}
  * for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and free to use array.
  */

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1.22 commons-collections 3.2.2

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1.23 taglibs-standard-spec 1.2.5

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1.24 ldns 1.6.17

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""" Easy DNS (including DNSSEC) via ldns.

ldns is a great library. It is a powerfull tool for
working with DNS. python-ldns it is a straight up clone of the C
interface, howver that is not a very good interface for python. Its
documentation is incomplete and some functions don't work as
described. And some objects don't have a full python API.

ldnsx aims to fix this. It wraps around the ldns python bindings,
working around its limitations and providing a well-documented, more
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1.26 dbus-glib 0.108

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1.31 bison 3.0.4

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(including a physical distribution medium), accompanied by a
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and valid for as
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#!/usr/bin/perl -0777 -pi

Update b4_copyright invocations or b4_copyright_years definitions to

```
# include the current year.

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use strict;
use warnings;

my $margin = 72;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
 {
   my ($sec, $min, $hour, $mday, $month, $year) = localtime
 (time ());
   $this_year = $year + 1900;
 }
my $old_re = <<'EOF'
 (
   (?:^|\n)
   #BEFORE
   (?:
     b4_copyright\(\[[^][]*]
     | m4_(?:push|pop)def\(\[b4_copyright_years]
   )
   #AFTER
 )
 (?:
   ,\s*
   (
     \[\s* (?:\d{4}(?:,\s*|-))* (\d{4}) \s*]
   )
 )?
 \)
EOF
 ;
```

```
while (/($old_re)/gx)
 {
  my $start = pos() - length ($1);
  my $b4_copyright_line = $2;
  my $year_lines = $3;
  my $final_year = $4;
  $year_lines .= ')';

  # If there was a second argument, it contains years, so update them.
  if ($final_year)
   {
    $b4_copyright_line .= ',';
    if ($final_year != $this_year)
     {
      # Update the year.
      $year_lines =~ s/$final_year/$final_year, $this_year/;
     }

    # Normalize all whitespace.
    $year_lines =~ s/\s+/ /g;

    # Put spaces after commas.
    $year_lines =~ s/, ?/, /g;

    # Compress to intervals.
    $year_lines =~
     s/
       (\d{4})
        (?:
         (,\ |-)
         ((??{
           if    ($2 eq '-') { '\d{4}'; }
           elsif (!$3)       { $1 + 1;  }
           else              { $3 + 1;  }
         }))
        )+
      /$1-$3/gx;

    # Format within margin.
    my $year_lines_new;
    my $indent = index ($b4_copyright_line, '[');
    --$indent if ($b4_copyright_line =~ m/^\n/);
    while (length $year_lines)
     {
      my $text_margin = $margin - $indent;
      if (($year_lines =~ s/^(.{1,$text_margin})(?: |$)//)
          || ($year_lines =~ s/^([\S]+)(?: |$)//))
```

```
          {
           my $line = "\n" . (' 'x$indent) . $1;
           ++$indent if (!$year_lines_new);
           $year_lines_new .= $line;
          }
         else
          {
           # Should be unreachable, but we don't want an infinite
           # loop if it can be reached.
           die;

 }
       }

     # Replace the old invocation.  Should never die.
     die if (!s/$old_re\G/$b4_copyright_line$year_lines_new/x);

     # Prepare for the next search.
     pos () = $start + length ("$b4_copyright_line$year_lines_new");
   }
}

while (/(\bb4_copyright\()/g)
 {
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  pos () = $start;
  $re =~ s/\#BEFORE/\\G/;
  if (!/$re/x)
    {
     my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
     print STDERR
       "$ARGV:$line: warning: failed to update a b4_copyright\n";
    }
  pos () = $end;
 }

while (/(\[b4_copyright_years])/g)
 {
  my $start = pos () - length ($1);
  my $end = pos ();
  my $re = $old_re;
  $re =~ s/\#AFTER/\\G/;
  if (!/$re/x)
    {
     # The substr operation blows away pos (), so restoring pos ()
     # at the end is necessary.
```

```
      my $line = (substr ($_, 0, $start) =~ s/\n/\n/g) + 1;
      print STDERR
        "$ARGV:$line: warning: failed to update a"
       . " b4_copyright_years\n";
    }
  pos () = $end;
}
```

1.32 gdbm 1.11

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Version 3, 29 June 2007

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Contributors

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* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>

 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
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* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
 * Bugfixes, Improvements and Test coverage

*
 Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <http://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
 * App Engine environment tests.

* John Krauss <https://github.com/talos>

* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James
Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
* Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes,
Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
 * Created selectors
 backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.34 enum34 1.1.6

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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loonhVQIICsparvjHMQuwqwCgiZFy
LBDVaad1bJ1v1EHY901kPcg=
=6rqm
-----END PGP SIGNATURE-----
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Version: GnuPG v1.0.7 (GNU/Linux)

iD8DBQFE85cgaq9Frj/CIrIRAmuJAKCFgi4W0UOH8IUn+SV6PBHRF3BnLgCcDqqC
Zokttk0bTHfwaa5TtxQbScw=
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-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.10 (GNU/Linux)

iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
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YLAJQQacLeGh7EzD3F+CKuiwT4c5ub64LdXSlAVj1u2OjZBfqLaJ3FA60Ti+I3kn
FNWKpzaeX+SQgMak6hsuatXi6EsVk6sIaskwEgl6+Xk+HYWy23ZQ8BKQRLKOZTw=
=gAqN
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PGP SIGNATURE-----
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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
=8WW7
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iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji
6etDJ6AUj0jTuSl59hUsWMQ=
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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The
 following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Version: GnuPG v1.4.2.1 (GNU/Linux)

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PGP SIGNATURE-----
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Name	Date added
Simone Bordet	12 September 2006

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1.40 sqlite 3.22.0

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1.41 apr-util 1.6.1

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* ----------------------------------------------------------------------------
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* can do whatever you want with this stuff. If we meet some day, and you think
* this stuff is worth it, you can buy me a beer in return.  Poul-Henning Kamp
* ----------------------------------------------------------------------------
*/
```

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1.42 tcsh 6.20.00

1.42.1 Available under license :

```
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/****************** System dependant compilation flags ****************/
/*
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
*  job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK This machine has a vfork().
*  It used to be that for job control to work, this define
*  was mandatory. This is not the case any more.
*  If you think you still need it, but you don't have vfork,
*  define this anyway and then do #define vfork fork.
*  I do this anyway on a Sun because of yellow pages brain damage,
*  [should not be needed under 4.1]
*  and on the iris4d cause SGI's fork is sufficiently "virtual"
*  that vfork isn't necessary.  (Besides, SGI's vfork is weird).
*  Note that some machines
 eg. rs6000 have a vfork, but not
*  with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS You have BSD-style job control (both process groups and
*  a tty that deals correctly
*/
#define BSDJOBS
```

```
/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
*  This may or may not be true.  For example, Apple Unix
*  (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgttyb.
*   This is usually the case for SYSV systems, where
*  BSD uses sgttyb. POSIX systems should define this
*  anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
*  NOTE: don't do this if you are on a Pyramid -- tcsh is
*  built in a BSD universe.
*  Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
*  you are running.
 Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

/*
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
*  to send command output to /dev/null
*/
#undef YPBUGS

/****************** local defines *********************/

#endif /* _h_config */
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* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/validation/Languages.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/util/Nodes.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/Difference.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/util/IterableNodeList.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/transform/Transformation.java

*
 /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ComparisonListenerSupport.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ChildNodeXPathContextProvider.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/Comparison.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/builder/package-info.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/input/NormalizedSource.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/validation/ValidationResult.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ComparisonType.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ElementSelectors.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/validation/package-info.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/util/Linqy.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ByNameAndTextRecSelector.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/NodeMatcher.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/DefaultConditionalSelectorBuilder.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/builder/AbstractTransformationBuilder.java
*
 /xmlunit-core-2-3-0-sources-jar/org/xmlunit/validation/ParsingValidator.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/DefaultComparisonFormatter.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/xpath/JAXPXPathEngine.java
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* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/package-info.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/input/CommentLessSource.java
*
 /xmlunit-core-2-3-0-sources-jar/org/xmlunit/input/package-info.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ComparisonControllers.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/transform/package-info.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/DifferenceEvaluator.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/xpath/package-info.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/DOMDifferenceEngine.java
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* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/util/Predicate.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/builder/TransformationBuilderBase.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/builder/Input.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/MultiLevelByNameAndTextSelector.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/validation/Validator.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/util/IsNullPredicate.java
*
 /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/Diff.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/DifferenceEngine.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/validation/ValidationProblem.java

* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ComparisonResult.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ElementSelector.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/RecursiveXPathBuilder.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/DifferenceEvaluators.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/DefaultNodeMatcher.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/input/WhitespaceStrippedSource.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/AbstractDifferenceEngine.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ComparisonController.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/package-info.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/diff/ComparisonListener.java
*
/xmlunit-core-2-3-0-sources-jar/org/xmlunit/xpath/XPathEngine.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/ConfigurationException.java
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* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/builder/JaxbBuilder.java
* /xmlunit-core-2-3-0-sources-jar/org/xmlunit/builder/DiffBuilder.java

1.44 binutils 2.30

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++++++++++++++++

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

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

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

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.

Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner

of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

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

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

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

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

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

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

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

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

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the

work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
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facilities. This must be distributed under the terms of the
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Appendix: How to Apply These Terms to Your New Libraries

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

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b) You must cause the files modified to carry prominent notices

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be
distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered
by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any
executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the
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c) Accompany the work with a written offer, valid for at
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components (compiler, kernel, and so on) of the operating system on
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.45 curl 7.60.0

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==========

libcurl can be built to use a fair amount of various third party libraries,
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using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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1.46 lzo 2.10

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1.47 libxml2 2.9.7

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1.48 gdb 8.1

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```
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
 "-*- buffer-read-only: t -*- vi" \
 ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {

 print "}";
  print "";
  print "static void";
  print "show_warranty_command (const char *ignore, int from_tty)";
  print "{";
 }
```

```
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
 printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info (\"copying\", show_copying_command,";

 print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition,
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This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative
work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of
the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply
a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the
work with a written offer, valid for at
least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the
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where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to

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section 10
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6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
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customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
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more than your reasonable cost of physically performing this
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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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the same way through the same place at no
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as a System Library, need not be
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and execute modified versions of a covered work in that User Product from

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Also add information on how to contact you by electronic and paper mail.

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<program> Copyright (C) <year> <name of author>
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Version 3, 29 June 2007

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```
Library.
#! /usr/bin/env python

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#
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"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review
 the output is:
   % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
  """
  result = []
```

```
  for gdb_dir in ('gdb', 'sim', 'include/gdb'):
     for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
           reldirname = "%s/%s" % (root, dirname)
           if (dirname in EXCLUDE_ALL_LIST
              or reldirname in EXCLUDE_LIST
              or reldirname in NOT_FSF_LIST
              or reldirname in BY_HAND):
              # Prune this directory from our search list.
              dirs.remove(dirname)
         for filename in files:
           relpath = "%s/%s" % (root, filename)
           if (filename in EXCLUDE_ALL_LIST
              or relpath in EXCLUDE_LIST
              or relpath in NOT_FSF_LIST
              or relpath in BY_HAND):
              # Ignore this file.
              pass
           else:
              result.append(relpath)
  return result


def update_files(update_list):
  """Update the copyright header of the files in the given list.

  We use gnulib's update-copyright script for that.
  """
  # We want to use year intervals in the copyright notices, and
  # all years should be collapsed to one single year interval,
  # even if there are "holes" in the list of years found in the
  # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
  os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

  # Perform the update, and save the output in a string.
  update_cmd
 = ['bash', 'gdb/gnulib/import/extra/update-copyright']
  update_cmd += update_list

  p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                       stderr=subprocess.STDOUT)
  update_out = p.communicate()[0]

  # Process the output.  Typically, a lot of files do not have
  # a copyright notice :-(.  The update-copyright script prints
  # a well defined warning when it did not find the copyright notice.
  # For each of those, do a sanity check and see if they may in fact
  # have one.  For the files that are found not to have one, we filter
```

```
  # the line out from the output, since there is nothing more to do,
  # short of looking at each file and seeing which notice is appropriate.
  # Too much work! (~4,000 files listed as of 2012-01-03).
  update_out = update_out.splitlines()
  warning_string = ': warning: copyright statement not found'
  warning_len = len(warning_string)

  for line in update_out:
     if line.endswith('\n'):

      line = line[:-1]
     if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
           print line
     else:
        # Unrecognized file format. !?!
        print "*** " + line


def may_have_copyright_notice(filename):
  """Check that the given file does not seem to have a copyright notice.

  The filename is relative to the root directory.
  This function assumes that the current working directory is that root
  directory.

  The algorigthm is fairly crude, meaning that it might return
  some false positives.  I do not think it will return any false
  negatives...  We might improve this function to handle more
  complex cases later...
  """
  # For now, it may have a copyright notice if we find the word
  # "Copyright" at the (reasonable) start of the given file, say
  # 50 lines...
  MAX_LINES = 50

  fd = open(filename)

  lineno = 1
  for line in fd:
      if 'Copyright' in line:
        return True
     lineno += 1
     if lineno > 50:
        return False
  return False
```

```
def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
     print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)

  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...

  if MULTIPLE_COPYRIGHT_HEADERS:
     print
     print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
     for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND:
        print "  ", filename

##############################################################################
#
#
 Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
##############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)
```

```
# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all
 files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
  # Nothing at the moment :-).
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h",
 "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
```

```
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
   "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
  "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
  "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
  "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
  "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
  "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
  "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
  "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
  "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
  "sim/ppc/bits.c", "sim/ppc/idecode_fields.h",
"sim/ppc/hw_memory.c",
  "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
  "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
  "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
  "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
  "sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
  "sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
  "sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
  "sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
  "sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
  "sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
  "sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
  "sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
  "sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
  "sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
  "sim/ppc/emul_unix.h", "sim/ppc/words.h",
 "sim/ppc/basics.h",
  "sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
  "sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
  "sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
  "sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
  "sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
  "sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
  "sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)
```

```
if __name__ == "__main__":
  main()
```

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

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In addition,
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary.
To prevent this, the GPL
assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of

the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a
work means to do anything with it that, without
permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface
presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

A ``Standard Interface'' means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context,
means a major essential component
(kernel, window system, and so on) of the specific operating system

(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms
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1.49 glib 2.46.2

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End
/***
* Perl-Compatible Regular Expressions *
***/

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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---

*/

```
#ifndef _PCRE_H
#define _PCRE_H

/*
 The current PCRE version information. */

#define PCRE_MAJOR          8
#define PCRE_MINOR          31
#define PCRE_PRERELEASE
#define PCRE_DATE           2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
#  ifndef PCRE_EXP_DECL
#    define PCRE_EXP_DECL  extern __declspec(dllimport)
#  endif
#  ifdef __cplusplus
#    ifndef PCRECPP_EXP_DECL
#      define PCRECPP_EXP_DECL  extern __declspec(dllimport)
#    endif
#    ifndef PCRECPP_EXP_DEFN
#      define PCRECPP_EXP_DEFN  __declspec(dllimport)
#    endif
#  endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
#  ifdef __cplusplus
```

```
#    define PCRE_EXP_DECL  extern "C"
#  else
#
   define PCRE_EXP_DECL  extern
#  endif
#endif

#ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#    define PCRECPP_EXP_DECL  extern
#  endif
#  ifndef PCRECPP_EXP_DEFN
#    define PCRECPP_EXP_DEFN
#  endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and
 therefore JIT
compiling). */

#define PCRE_CASELESS          0x00000001  /* Compile */
#define PCRE_MULTILINE         0x00000002  /* Compile */
#define PCRE_DOTALL            0x00000004  /* Compile */
#define PCRE_EXTENDED          0x00000008  /* Compile */
#define PCRE_ANCHORED          0x00000010  /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY    0x00000020  /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA             0x00000040  /* Compile */
#define PCRE_NOTBOL            0x00000080  /* Exec, DFA exec */
#define PCRE_NOTEOL            0x00000100  /* Exec, DFA exec */
#define PCRE_UNGREEDY          0x00000200  /* Compile */
```

```
#define PCRE_NOTEMPTY          0x00000400  /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8              0x00000800  /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16             0x00000800  /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE   0x00001000  /* Compile */
/*
 The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK     0x00002000  /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK    0x00002000  /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT      0x00004000  /* Compile */
#define PCRE_PARTIAL_SOFT      0x00008000  /* Exec, DFA exec */
#define PCRE_PARTIAL           0x00008000  /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST      0x00010000  /* DFA exec */
#define PCRE_DFA_RESTART       0x00020000  /* DFA exec */
#define PCRE_FIRSTLINE         0x00040000  /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES          0x00080000  /* Compile */
#define PCRE_NEWLINE_CR        0x00100000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF        0x00200000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF      0x00300000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY       0x00400000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF
   0x00500000  /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF       0x00800000  /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE       0x01000000  /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000  /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000  /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000  /* Synonym */
#define PCRE_PARTIAL_HARD      0x08000000  /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART  0x10000000  /* Exec, DFA exec */
#define PCRE_UCP               0x20000000  /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH         (-1)
#define PCRE_ERROR_NULL            (-2)
#define PCRE_ERROR_BADOPTION       (-3)
#define PCRE_ERROR_BADMAGIC        (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE  (-5)
#define PCRE_ERROR_UNKNOWN_NODE    (-5)  /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY        (-6)
#define PCRE_ERROR_NOSUBSTRING
    (-7)
#define PCRE_ERROR_MATCHLIMIT      (-8)
#define PCRE_ERROR_CALLOUT         (-9)  /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8         (-10)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16        (-10)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET  (-11)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11)  /* Same for 8/16 */
```

```
#define PCRE_ERROR_PARTIAL        (-12)
#define PCRE_ERROR_BADPARTIAL     (-13)
#define PCRE_ERROR_INTERNAL       (-14)
#define PCRE_ERROR_BADCOUNT       (-15)
#define PCRE_ERROR_DFA_UITEM      (-16)
#define PCRE_ERROR_DFA_UCOND      (-17)
#define PCRE_ERROR_DFA_UMLIMIT    (-18)
#define PCRE_ERROR_DFA_WSSIZE     (-19)
#define PCRE_ERROR_DFA_RECURSE    (-20)
#define PCRE_ERROR_RECURSIONLIMIT  (-21)
#define PCRE_ERROR_NULLWSLIMIT    (-22)  /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE     (-23)
#define PCRE_ERROR_BADOFFSET      (-24)
#define PCRE_ERROR_SHORTUTF8      (-25)
#define
 PCRE_ERROR_SHORTUTF16     (-25)  /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP    (-26)
#define PCRE_ERROR_JIT_STACKLIMIT  (-27)
#define PCRE_ERROR_BADMODE        (-28)
#define PCRE_ERROR_BADENDIANNESS   (-29)
#define PCRE_ERROR_DFA_BADRESTART  (-30)

/* Specific error codes for UTF-8 validity checks */

#define PCRE_UTF8_ERR0            0
#define PCRE_UTF8_ERR1            1
#define PCRE_UTF8_ERR2            2
#define PCRE_UTF8_ERR3            3
#define PCRE_UTF8_ERR4            4
#define PCRE_UTF8_ERR5            5
#define PCRE_UTF8_ERR6            6
#define PCRE_UTF8_ERR7            7
#define PCRE_UTF8_ERR8            8
#define PCRE_UTF8_ERR9            9
#define PCRE_UTF8_ERR10           10
#define PCRE_UTF8_ERR11           11
#define PCRE_UTF8_ERR12           12
#define PCRE_UTF8_ERR13           13
#define PCRE_UTF8_ERR14           14
#define PCRE_UTF8_ERR15           15
#define PCRE_UTF8_ERR16           16
#define PCRE_UTF8_ERR17
          17
#define PCRE_UTF8_ERR18           18
#define PCRE_UTF8_ERR19           19
#define PCRE_UTF8_ERR20           20
#define PCRE_UTF8_ERR21           21
```

```
/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0            0
#define PCRE_UTF16_ERR1            1
#define PCRE_UTF16_ERR2            2
#define PCRE_UTF16_ERR3            3
#define PCRE_UTF16_ERR4            4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS          0
#define PCRE_INFO_SIZE             1
#define PCRE_INFO_CAPTURECOUNT     2
#define PCRE_INFO_BACKREFMAX       3
#define PCRE_INFO_FIRSTBYTE        4
#define PCRE_INFO_FIRSTCHAR        4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE       5
#define PCRE_INFO_LASTLITERAL      6
#define PCRE_INFO_NAMEENTRYSIZE    7
#define PCRE_INFO_NAMECOUNT        8
#define PCRE_INFO_NAMETABLE        9
#define PCRE_INFO_STUDYSIZE        10
#define PCRE_INFO_DEFAULT_TABLES
   11
#define PCRE_INFO_OKPARTIAL        12
#define PCRE_INFO_JCHANGED         13
#define PCRE_INFO_HASCRORLF        14
#define PCRE_INFO_MINLENGTH        15
#define PCRE_INFO_JIT              16
#define PCRE_INFO_JITSIZE          17
#define PCRE_INFO_MAXLOOKBEHIND    18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8                   0
#define PCRE_CONFIG_NEWLINE                1
#define PCRE_CONFIG_LINK_SIZE              2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT            4
#define PCRE_CONFIG_STACKRECURSE           5
#define PCRE_CONFIG_UNICODE_PROPERTIES     6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION  7
#define PCRE_CONFIG_BSR                    8
#define PCRE_CONFIG_JIT                    9
#define PCRE_CONFIG_UTF16                  10
#define PCRE_CONFIG_JITTARGET              11
```

```
/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible.
 */

#define PCRE_STUDY_JIT_COMPILE                0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE   0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE   0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA            0x0001
#define PCRE_EXTRA_MATCH_LIMIT           0x0002
#define PCRE_EXTRA_CALLOUT_DATA          0x0004
#define PCRE_EXTRA_TABLES                0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION  0x0010
#define PCRE_EXTRA_MARK                  0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT        0x0040

/* Types */

struct real_pcre;                /* declaration; the definition is private  */
typedef struct real_pcre pcre;

struct real_pcre16;              /* declaration; the definition is private  */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack;      /* declaration; the definition is private  */
typedef
 struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack;    /* declaration; the definition is private  */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */
```

```
#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
  unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;              /* Opaque data from pcre_study() */
 unsigned long int match_limit;  /* Maximum number of calls to match() */
 void *callout_data;            /* Data passed back in callouts */
 const unsigned char *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 unsigned char **mark;           /* For passing back a mark pointer */
 void *executable_jit;          /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
 unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;              /* Opaque data from pcre_study() */
 unsigned long int match_limit;  /* Maximum number of calls to match() */
 void *callout_data;            /* Data passed back in callouts */
 const unsigned char
 *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 PCRE_UCHAR16 **mark;           /* For passing back a mark pointer */
 void *executable_jit;          /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
 int          version;          /* Identifies version of block */
 /* ------------------------ Version 0 ------------------------------- */
 int          callout_number;    /* Number compiled into pattern */
 int         *offset_vector;     /* The offset vector */
 PCRE_SPTR    subject;           /* The subject being matched */
 int          subject_length;    /* The length of the subject */
 int
```

```
       start_match;       /* Offset to start of this match attempt */
 int          current_position;  /* Where we currently are in the subject */
 int          capture_top;       /* Max current capture */
 int          capture_last;      /* Most recently closed capture */
 void         *callout_data;     /* Data passed in with the call */
 /* ------------------- Added for Version 1 -------------------------- */
 int          pattern_position;  /* Offset to next item in the pattern */
 int          next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 -------------------------- */
 const unsigned char *mark;      /* Pointer to current mark or NULL    */
 /* ------------------------------------------------------------------ */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
 int          version;           /* Identifies version of block */
 /* ------------------------
 Version 0 ------------------------------- */
 int          callout_number;    /* Number compiled into pattern */
 int         *offset_vector;     /* The offset vector */
 PCRE_SPTR16  subject;           /* The subject being matched */
 int          subject_length;    /* The length of the subject */
 int          start_match;       /* Offset to start of this match attempt */
 int          current_position;  /* Where we currently are in the subject */
 int          capture_top;       /* Max current capture */
 int          capture_last;      /* Most recently closed capture */
 void         *callout_data;     /* Data passed in with the call */
 /* ------------------- Added for Version 1 -------------------------- */
 int          pattern_position;  /* Offset to next item in the pattern */
 int          next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 -------------------------- */
 const PCRE_UCHAR16 *mark;
      /* Pointer to current mark or NULL    */
 /* ------------------------------------------------------------------ */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_stack_free)(void *);
```

```
PCRE_EXP_DECL int   (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else
  /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void  pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre16_stack_free(void *);
PCRE_EXP_DECL int   pcre16_callout(pcre16_callout_block *);
#endif  /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const
 char *, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL int  pcre_config(int, void *);
PCRE_EXP_DECL int  pcre16_config(int, void *);
PCRE_EXP_DECL int  pcre_copy_named_substring(const pcre *, const char *,
              int *, int, const char *, char *, int);
PCRE_EXP_DECL int  pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
              int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_copy_substring(const char *, int *, int, int,
              char *, int);
PCRE_EXP_DECL int  pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
              PCRE_UCHAR16 *, int);
```

```
PCRE_EXP_DECL int  pcre_dfa_exec(const pcre *, const pcre_extra *,
              const char *, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre16_dfa_exec(const pcre16 *, const
 pcre16_extra *,
              PCRE_SPTR16, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
               int, int, int, int *, int);
PCRE_EXP_DECL int  pcre16_exec(const pcre16 *, const pcre16_extra *,
               PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_fullinfo(const pcre *, const pcre_extra *, int,
              void *);
PCRE_EXP_DECL int  pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
              void *);
PCRE_EXP_DECL int  pcre_get_named_substring(const pcre *, const char *,
              int *, int, const char *, const char **);
PCRE_EXP_DECL int  pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
              int
 *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int  pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int  pcre_get_stringtable_entries(const pcre *, const char *,
              char **, char **);
PCRE_EXP_DECL int  pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
              PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int  pcre_get_substring(const char *, int *, int, int,
              const char **);
PCRE_EXP_DECL int  pcre16_get_substring(PCRE_SPTR16, int *, int, int,
              PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_substring_list(const char *, int *, int,
              const char ***);
PCRE_EXP_DECL int  pcre16_get_substring_list(PCRE_SPTR16, int *, int,
              PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int  pcre_refcount(pcre *,
 int);
PCRE_EXP_DECL int  pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);
```

```
/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int  pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
              const unsigned char *);
PCRE_EXP_DECL int  pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
              const unsigned char *);
PCRE_EXP_DECL int  pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
              PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack
 *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
              pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
              pcre16_jit_callback, void *);

#ifdef __cplusplus
}  /* extern "C" */
#endif

#endif /* End of pcre.h */
```

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[This is the first released version of the library GPL. It is
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```
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*/

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#define __G_LIB_H__

#define __GLIB_H_INSIDE__

#include <glib/galloca.h>
#include <glib/garray.h>
#include <glib/gasyncqueue.h>
#include <glib/gatomic.h>
#include <glib/gbacktrace.h>
#include <glib/gbase64.h>
#include <glib/gbitlock.h>
#include <glib/gbookmarkfile.h>
#include <glib/gbytes.h>
#include <glib/gcharset.h>
#include <glib/gchecksum.h>
#include <glib/gconvert.h>
#include <glib/gdataset.h>
```

```
#include <glib/gdate.h>
#include <glib/gdatetime.h>
#include <glib/gdir.h>
#include <glib/genviron.h>
#include <glib/gerror.h>
#include <glib/gfileutils.h>
#include <glib/ggettext.h>
#include <glib/ghash.h>
#include <glib/ghmac.h>
#include <glib/ghook.h>
#include <glib/ghostutils.h>
#include <glib/giochannel.h>
#include <glib/gkeyfile.h>
#include <glib/glist.h>
#include <glib/gmacros.h>
#include <glib/gmain.h>
#include <glib/gmappedfile.h>
#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include
 <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
```

```
#include <glib/gunicode.h>
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif

#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include
 <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>
#include <glib/deprecated/grel.h>
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */

#include <glib/glib-autocleanups.h>

#undef __GLIB_H_INSIDE__

#endif /* __G_LIB_H__ */
```

```
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1.50 libtool 2.4.6

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Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
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-- vile: txtmode file-encoding=utf-8
Upstream source http://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
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Files: aclocal.m4 package
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Files: doc/html/NCURSES-Programming-HOWTO.html
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-- $Id: COPYING,v 1.3 2015/01/03 20:12:01 tom Exp $

1.54 lua 5.3.4

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1.55 libidn 1.33

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1.56 httpcomponents-core 4.4.10

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1.57 jaxb-core 2.3.0

1.58 zlib 1.2.3

1.58.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.59 hk2-utils 2.5.0

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1.62 hk2-api 2.5.0

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file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From
strings/apr_snprintf.c:

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* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/MetricsTracker.java
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* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/util/UtilityElf.java
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 /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/util/PropertyElf.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariDataSource.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariPoolMXBean.java
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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- javaee_web_services_1_4.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_1_4.xsd
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1.72 python-setuptools 41.2.0

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1.73 zlib 1.2.8

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* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPOutputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZInputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflater.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfBlocks.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/DeflaterOutputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Inflater.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/JZlib.java
*
/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPInputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/CRC32.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPHeader.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InflaterInputStream.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Checksum.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZOutputStream.java
No license file was found, but licenses were detected in source scan.

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* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/StaticTree.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Tree.java
* /jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfCodes.java

1.76 zlib 1.0.4

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1.80 tcpdump 4.9.2

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1.81 sbsigntool 1.3

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Allbery, Russ
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Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                           \
 uv__io_t event_watcher;                                                      \
```

```
#define UV_IO_PRIVATE_PLATFORM_FIELDS                                \
 int rcount;                                                         \
 int wcount;                                                         \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
```

Files: *

========

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its purpose remains meaningful.

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functions (ten lines or less in length), then the use of the object
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if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,

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@item
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stating
 that you changed the files and the date of any change.

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part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

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distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)
@end enumerate

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making modifications to it. For an executable work, complete source
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@end enumerate

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@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively

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 and a brief idea of what it does.}
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@end smallexample

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when it starts in an interactive mode:

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 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
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@example
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.95 jetty-servlets 9.4.16.v20190411

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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1.96 idna 2.6

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1.98 sqlite 3.20.0

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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

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

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

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[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at http://www.gnu.org/]

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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compelled to copy the source along with the object code.

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Library, but is designed to work with the Library by being compiled
or
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts
and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.100 libnet 1.2

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1.101 libarchive 3.3.2

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1.102 gdb 6.1.1

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info.  */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target.  */

template<typename BaseTarget>
class x86bsd_nat_target
 : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
   base_class::mourn_inferior ();
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
/* Native-dependent code for modern i386 BSD's.

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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions.  See definitions.  */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern void i386bsd_store_inferior_registers
 (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/i386 target.  */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { i386bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
/* Native-dependent code for modern AMD64 BSD's.

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H
```

```
#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern
 void amd64bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/AMD64 target.  */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

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license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
```

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@enumerate 0
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This option is useful when you wish to copy part of the code of the
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the object
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b) Accompany the work
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<one line to give the library's name and a brief idea of what it does.>
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necessary. Here is a sample; alter
the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
/* BSD Kernel Data Access Library (libkvm) interface.

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include
"inferior.h" /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H

```
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file.  */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor.  */
static kvm_t *core_kd;

/* Address of process control block.  */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
  register state from PCB and supplies it to REGCACHE.  */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm.  The kvm
  target currently doesn't export any view of the running processes,
  so this represents the kernel task.  */
static ptid_t bsd_kvm_ptid;

/* The libkvm target.  */

static
 const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public process_stratum_target
{
public:
 bsd_kvm_target () = default;

 const target_info &info () const override
 { return bsd_kvm_target_info; }

 void close () override;

 void fetch_registers (struct regcache *, int) override;
 enum target_xfer_status xfer_partial (enum target_object object,
     const char *annex,
     gdb_byte *readbuf,
     const gdb_byte *writebuf,
```

```
    ULONGEST offset, ULONGEST len,
    ULONGEST *xfered_len) override;

 void files_info () override;
 bool thread_alive (ptid_t ptid) override;
 const char *pid_to_str (ptid_t) override;

 bool has_memory () override { return true; }
 bool has_stack () override { return true; }
 bool has_registers () override { return true; }
};

/* Target ops for libkvm interface.  */
static bsd_kvm_target
 bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
 char errbuf[_POSIX2_LINE_MAX];
 char *execfile = NULL;
 kvm_t *temp_kd;
 char *filename = NULL;

 target_preopen (from_tty);

 if (arg)
   {
     char *temp;

     filename = tilde_expand (arg);
     if (filename[0] != '/')
 {
   temp = concat (current_directory, "/", filename, (char *)NULL);
   xfree (filename);
   filename = temp;
 }
   }

 execfile = get_exec_file (0);
 temp_kd = kvm_openfiles (execfile, filename, NULL,
      write_files ? O_RDWR : O_RDONLY, errbuf);
 if (temp_kd == NULL)
   error (("%s"), errbuf);

 bsd_kvm_corefile = filename;
 unpush_target (&bsd_kvm_ops);
 core_kd = temp_kd;
```

```
 push_target (&bsd_kvm_ops);

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
  if (core_kd)
    {
      if (kvm_close (core_kd) == -1)
 warning (("%s"), kvm_geterr(core_kd));
      core_kd = NULL;
    }

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
       gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

 if (readbuf)
   nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
 if (writebuf && nbytes > 0)
   nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
 return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
         const char *annex, gdb_byte *readbuf,
         const gdb_byte *writebuf,
         ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
 switch (object)
   {
   case TARGET_OBJECT_MEMORY:
     {
```

```
 LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

 if (ret < 0)
   return TARGET_XFER_E_IO;
 else if (ret == 0)
   return TARGET_XFER_EOF;
 else
   {
     *xfered_len = (ULONGEST)
 ret;
     return TARGET_XFER_OK;
   }
     }

   default:
     return TARGET_XFER_E_IO;
   }
}

void
bsd_kvm_target::files_info ()
{
 if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
   printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
       bsd_kvm_corefile);
 else
   printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR.  */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
 struct pcb pcb;

 if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
   error (("%s"), kvm_geterr (core_kd));

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];
```

```
if (bsd_kvm_paddr)
  {
    bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
    return;
  }

/* On dumping core, BSD kernels store the faulting context (PCB)

in the variable "dumppcb".  */
memset (nl, 0, sizeof nl);
nl[0].n_name = "_dumppcb";

if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
  {
    /* Found dumppcb.  If it contains a valid context, return
 immediately.  */
    if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
return;
  }

/* Traditional BSD kernels have a process proc0 that should always
   be present.  The address of proc0's PCB is stored in the variable
   "proc0paddr".  */

memset (nl, 0, sizeof nl);
nl[0].n_name = "_proc0paddr";

if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), kvm_geterr (core_kd));

if (nl[0].n_value != 0)
  {
    struct pcb *paddr;

    /* Found proc0paddr.  */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
  }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
 /* In FreeBSD kernels
```

```
 for 5.0-RELEASE and later, the PCB no longer
    lives in `struct proc' but in `struct thread'.  The `struct
    thread' for the initial thread for proc0 can be found in the
    variable "thread0".  */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_thread0";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
     struct pcb *paddr;

     /* Found thread0.  */
     nl[0].n_value += offsetof (struct thread, td_pcb);
     if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

     bsd_kvm_fetch_pcb (regcache, paddr);
     return;
   }
#endif

 /* i18n: PCB == "Process Control Block".  */
 error (_("Cannot find a valid PCB"));
}


/* Kernel memory interface commands.  */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
 /* ??? Should this become an alias for "target kvm"?  */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static
 void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
 CORE_ADDR addr;

 if (arg == NULL)
```

```
  error_no_arg (_("proc address"));

 if (core_kd == NULL)
  error (_("No kernel memory image."));

 addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
 addr += offsetof (struct lwp, l_addr);
#else
 addr += offsetof (struct proc, p_addr);
#endif

 if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
  error (("%s"), kvm_geterr (core_kd));

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
 if (arg == NULL)
  /* i18n: PCB == "Process Control Block".  */
  error_no_arg (_("pcb address"));

 if (core_kd == NULL)
  error (_("No kernel memory image."));

 bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

 target_fetch_registers (get_current_regcache (),
 -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
 return true;
}
```

```
const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
 static char buf[64];
 xsnprintf (buf, sizeof buf, "<kvm>");
 return buf;
}

/* Add the libkvm interface to the list of all possible targets and
  register CUPPLY_PCB as the architecture-specific process control
  block interpreter.  */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
 gdb_assert (bsd_kvm_supply_pcb == NULL);
 bsd_kvm_supply_pcb = supply_pcb;

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

 add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
 add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
  add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block".  */
    _("Set current context from pcb address"), &bsd_kvm_cmdlist);

 /* Some notes on the ptid usage on this target.

    The pid field represents the kvm inferior instance.  Currently,
    we don't support multiple kvm inferiors, but we start at 1
    anyway.  The lwp field is set to != 0, in case the core wants to
    refer to the whole kvm inferior with ptid(1,0,0).

    If kvm is made to export running processes as gdb threads,
    the following form can be used:
    ptid (1, 1, 0) -> kvm inferior 1, in kernel
    ptid (1, 1, 1) -> kvm inferior 1, process 1
    ptid (1, 1, 2) -> kvm inferior 1, process 2
    ptid (1, 1, n) -> kvm inferior 1, process n  */

 bsd_kvm_ptid = ptid_t (1, 1, 0);
}
```

```
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
  "-*- buffer-read-only: t -*- vi" \
  ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {

  print "}";
  print "";
  print "static void";
  print "show_warranty_command (const char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
```

```
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info (\"copying\", show_copying_command,";

  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
#! /usr/bin/env python

# Copyright (C) 2011-2019 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
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"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py
```

```
Always review the output of this script before committing it!
A useful command to review
 the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
  """
  result = []
  for gdb_dir in ('gdb', 'sim', 'include/gdb'):
     for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
           reldirname = "%s/%s" % (root, dirname)
           if (dirname in EXCLUDE_ALL_LIST
              or reldirname in EXCLUDE_LIST
              or reldirname in NOT_FSF_LIST
              or reldirname in BY_HAND):
              # Prune this directory from our search list.
              dirs.remove(dirname)
         for filename in files:
           relpath = "%s/%s" % (root, filename)
           if (filename in EXCLUDE_ALL_LIST
              or relpath in EXCLUDE_LIST
              or relpath in NOT_FSF_LIST
              or relpath in BY_HAND):
              # Ignore this file.
              pass
           else:
              result.append(relpath)
  return result


def update_files(update_list):
  """Update the copyright header of the files in the given list.
```

```
  We use gnulib's update-copyright script for that.
  """
  # We want to use year intervals in the copyright notices, and
  # all years should be collapsed to one single year interval,
  # even if there are "holes" in the list of years found in the
  # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
  os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

  # Perform the update, and save the output in a string.
  update_cmd
= ['bash', 'gdb/gnulib/import/extra/update-copyright']
  update_cmd += update_list

  p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                       stderr=subprocess.STDOUT)
  update_out = p.communicate()[0]

  # Process the output.  Typically, a lot of files do not have
  # a copyright notice :-(.  The update-copyright script prints
  # a well defined warning when it did not find the copyright notice.
  # For each of those, do a sanity check and see if they may in fact
  # have one.  For the files that are found not to have one, we filter
  # the line out from the output, since there is nothing more to do,
  # short of looking at each file and seeing which notice is appropriate.
  # Too much work! (~4,000 files listed as of 2012-01-03).
  update_out = update_out.splitlines()
  warning_string = ': warning: copyright statement not found'
  warning_len = len(warning_string)

  for line in update_out:
     if line.endswith('\n'):

      line = line[:-1]
     if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
           print line
     else:
        # Unrecognized file format. !?!
        print "*** " + line


def may_have_copyright_notice(filename):
  """Check that the given file does not seem to have a copyright notice.

  The filename is relative to the root directory.
  This function assumes that the current working directory is that root
  directory.
```

```
  The algorigthm is fairly crude, meaning that it might return
  some false positives.  I do not think it will return any false
  negatives...  We might improve this function to handle more
  complex cases later...
  """
  # For now, it may have a copyright notice if we find the word
  # "Copyright" at the (reasonable) start of the given file, say
  # 50 lines...
  MAX_LINES = 50

  fd = open(filename)

  lineno = 1
  for line in fd:
      if 'Copyright' in line:
         return True
      lineno += 1
      if lineno > 50:
         return False
  return False


def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
     print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)

  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...

  if MULTIPLE_COPYRIGHT_HEADERS:
     print
     print("\033[31m"
           "REMINDER: Multiple copyright headers must be updated by hand:"
           "\033[0m")
     for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
           "\033[0m"
     for filename in BY_HAND:
```

```
        print "  ", filename

############################################################################
#
#
 Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all
 files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
  # Nothing at the moment :-).
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
```

```
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h",
 "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
   "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
  "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
  "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
  "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
  "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
  "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
  "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
  "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
  "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
  "sim/ppc/bits.c", "sim/ppc/idecode_fields.h",
 "sim/ppc/hw_memory.c",
  "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
  "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
```

"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h",
"sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
main()
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Version 2, June 1991

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a copy of this License. If the work
during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the
work with a written offer, valid for at
least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the

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1.104 ipmi-tool 1.8.18

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1.105 tcl 8.5.19

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1.108 make 4.2

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if

you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because

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

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

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

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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

"Source code" for a work means the preferred form of the work for

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

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

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

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

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

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

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work
of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the
object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it
is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each

version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that

everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year>
 <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Library General Public
  License as published by the Free Software Foundation; either
  version 2 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Library General Public License for more details.

  You should have received a copy of the GNU Library General Public
  License along with this library; if not, write to the Free
  Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the
 names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
                GNU GENERAL PUBLIC LICENSE
                  Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic

pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other

parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those

subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered
by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
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You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

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is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or

modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work,

and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

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 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
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 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

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 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

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 * Allowed to skip SSL hostname verification

* Cory Benfield
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 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
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* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
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* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer

<asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai
 (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.113 xerces-j 2.7.1

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(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
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++++++++++++++++

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

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

K. Richard Pixley maintained gas for a while, adding various

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

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't
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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence
of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination
fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we
use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without
limitation in the term "modification".)

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

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

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

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified
Library refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be
distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered
by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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which the executable runs, unless that component itself accompanies
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b) Give prominent notice with the combined library of the fact
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[This is the first released version of the library GPL. It is
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free software--to make sure the software is free for all its users.

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To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
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For example, if you distribute copies of the library, whether gratis
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complete object files to the recipients so that they can relink them

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Our method of protecting your rights has two steps: (1) copyright
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want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
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Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed
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Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to

permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent
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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the
work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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the source code distributed need not include anything that is normally
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which the executable runs, unless that component itself accompanies
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use both them and the Library together in an executable that you
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1.119 hamcrest 1.3

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1.121 postgre-sql 7.4.2

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==========

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1.130 icu 36

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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


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

```
  [ -s $@ ] || rm -f $@'

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

## Versioned libraries rules

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

## End FreeBSD-specific setup
```

1.131 json-c 0.13

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1.132 protobuf 3.5.1.1

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1.133 libunwind 20170615

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*/

tree grammar ATNBuilder;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
   {$p
 = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
     {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;
```

```
lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
      {
      $p = factory.alt(cmds);
      }
  ;

lexerCommand returns [ATNFactory.Handle
 cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
      {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET     {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)   {$p = factory.listLabel($element.p);}
 ;

subrule
 returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
```

```
| block[null]       {$p = $block.p;}
  ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  |   LEXER_CHAR_SET
 ;

atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
| ^(DOT ID terminal)  {$p = $terminal.p;}
| ^(DOT ID ruleref)  {$p = $ruleref.p;}
  | ^(WILDCARD .)   {$p = factory.wildcard($start);}
  | WILDCARD    {$p = factory.wildcard($start);}
  | blockSet[false]   {$p =
 $blockSet.p;}
  |   terminal    {$p = $terminal.p;}
  |   ruleref     {$p = $ruleref.p;}
  ;

ruleref returns [ATNFactory.Handle p]
  : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
  | ^(RULE_REF ARG_ACTION?)       {$p = factory.ruleRef($RULE_REF);}
  | RULE_REF          {$p = factory.ruleRef($RULE_REF);}
  ;

range returns [ATNFactory.Handle p]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
  ;

terminal returns [ATNFactory.Handle p]
  :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
  | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
  | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
  | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
  | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
  ;
```

```
elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID ID)
 | ^(ASSIGN
 ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/semantics/ActionSniffer.java
*
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
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*
 /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/ANTLRMessage.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
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 /antlr4-4-5-1-1-sources-jar/org/antlr/v4/parse/v3TreeGrammarException.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/ast/PredAST.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/misc/MutableInt.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/Target.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/parse/ScopeParser.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/misc/FrequencySet.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/misc/Graph.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/gui/GraphicsSupport.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/semantics/RuleCollector.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/DOTGenerator.java
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/antlr4-4-5-1-1-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/ast/RuleAST.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/analysis/AnalysisPipeline.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/semantics/SymbolChecks.java
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/gui/TreeViewer.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/ListenerFile.java
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/antlr4-4-5-1-1-sources-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/ast/TerminalAST.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/Rule.java
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/gui/PostScriptDocument.java
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*/

tree grammar BlockSetTransformer;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import
 java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
  : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
  | setAlt
```

```
  | ebnfBlockSet
  | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
 ;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
 ;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}?
 // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
```

```
 |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
 | {!inLexer}?=> ^(TOKEN_REF elementOptions)
 | {!inLexer}?=>   TOKEN_REF
 | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
&&
   CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
 )
;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN id=ID v=ID)
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;
```

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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int
 numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
```

```
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//       ( ^(THROWS .+) )? don't allow
       ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
       ( ^(OPTIONS .*)
      |   ^(AT ID ACTION) // TODO: copy
      )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
 ;

exceptionGroup
   : exceptionHandler* finallyClause?
    ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
   : PUBLIC
   | PRIVATE
   | PROTECTED
   ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
   (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
   )+
  )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
   :   (binary)=>          binary
                       {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
   |   (prefix)=>          prefix
```

```
                {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  |  (suffix)=>          suffix
                {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |  nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^(
 ALT elementOptions? recurse element* recurse epsilonElement* )
     {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

prefix
 : ^( ALT elementOptions?
  ({!((CommonTree)input.LT(1)).getText().equals(ruleName)}? element)+
  recurse epsilonElement*
  )
     {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
  :  ^( ALT elementOptions? recurse element+ )
     {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  ;

nonLeftRecur
  :  ^(ALT elementOptions? element+)
  ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL        {$t = $b;}
  | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
  | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF             {$t = $c;}
 ;

elementOptions
```

```
    : ^(ELEMENT_OPTIONS elementOption*)
   ;

elementOption
   : ID
   |  ^(ASSIGN ID ID)
   |  ^(ASSIGN ID STRING_LITERAL)
   |  ^(ASSIGN ID ACTION)
   |  ^(ASSIGN ID INT)
   ;

element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
   | ^(SET setElement+)
   |  RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:   block
   |  ^( OPTIONAL block )
   |  ^( CLOSURE block )
   |  ^( POSITIVE_CLOSURE block )
   ;

block
   : ^(BLOCK ACTION? alternative+)
   ;
```

```
alternative
 : ^(ALT elementOptions? element+)
   ;

atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
   |  ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
   | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
   | ^(WILDCARD elementOptions)
 | WILDCARD
 | ^(DOT
 ID element)
 ;
```

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*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;
```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
  this(input, new RecognizerSharedState());
  this.delegate = delegate;
}

/** force filtering (and
 return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
  List<Token> chunks = new ArrayList<Token>();
  Token t = nextToken();
  while ( t.getType()!=Token.EOF ) {
     chunks.add(t);
     t = nextToken();
  }
  return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
  :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
  ;

LINE_COMMENT
  : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
  ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;
```

```
SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

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tree grammar SourceGenTriggers;
options {
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import
 java.util.HashMap;
}

@members {
 public OutputModelController controller;
  public boolean hasLookaheadBlock;
  public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
   this(input);
   this.controller = controller;
  }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
```

```
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
    }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions? EPSILON)
       {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
  ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
```

```
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
  {
  $omos = $block.omos;
  }
 | ( ^(op=CLOSURE
 b=block[null,null])
  | ^(op=POSITIVE_CLOSURE b=block[null,null])
  )
  {
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
      hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(loop);
  }
 |  block[null, null]     {$omos = $block.omos;}
   ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
   : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
   ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT a=atom[$label,
```

```
 true])  {$omos = $a.omos;}
| range[label]       {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
  | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
  | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
  |   terminal[label]     {$omos = $terminal.omos;}
  |   ruleref[label]     {$omos = $ruleref.omos;}
| blockSet[$label, invert]  {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF,
 $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

elementOption
  : ID
  |   ^(ASSIGN ID ID)
  |   ^(ASSIGN ID STRING_LITERAL)
  |   ^(ASSIGN ID ACTION)
  |   ^(ASSIGN ID INT)
  ;

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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// gramnmars are derived from
 this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritence;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{} sections
 in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
```

```
*             A3Parser.g
*             A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;

// ============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care
 about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
```

```
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this
 source and also the generated source
//
@lexer::header {
/*
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or subrule.
  *  Return token or null if for some reason
 we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
    if ( tokens==null ) return null;
  int i = tokens.index();
      int n = tokens.size();
      if ( i>=n ) i = n-1; // seems index == n as we lex
  while ( i>=0 && i<n) {
   int ttype = tokens.get(i).getType();
   if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
    return tokens.get(i);
   }
   i--;
  }
  return null;
 }
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets
 as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
   : // Eat the first character only, then see if we have a comment
     // or something silly.
     //
```

```
    '/'  // Comment introducer

    (
        // Single line comment, possibly with embedded src/line directives
        // in a similar style to the C pre-processor, allowing generated
        // code to refer the programmer back to the original source code
        // in case of error.
        //
        '/'
         (
            (' $ANTLR')=> ' $ANTLR' SRC
          | ~(NLCHARS)*
         )

       | // Multi-line comment, which may be a documentation comment
         // if it starts /** (note that we protect against accidentaly
         // recognizing a comment /**/ as a documentation
comment
         //
         '*' (
              { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
            | { true }?=>  // Required to cover all alts with predicates
            )

            // Should we support embedded multiline comments here?
            //
            (
               // Pick out end of multiline comment and exit the loop
               // if we find it.
               //
               {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

                 // Anything else other than the non-greedy match of
                 // the comment close sequence
                 //
                 .
            )*
         (
               // Look for the comment terminator, but if it is accidentally
               // unterminated, then we will hit EOF, which will trigger the
               // epsilon alt and hence we can issue an error message relative
               // to the start of
the unterminated multi-line comment
               //
               '*/'

            | // Unterminated comment!
              //
```

```
            {
              // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
            }
          )

      | // There was nothing that made sense following the opening '/' and so
        // we issue an error regarding the malformed comment
        //
        {
          // TODO: Insert error message relative to comment start
          //
        }
    )
    {
      // We do not wish to pass the comments in to the parser. If you are
      // writing a formatter then you will want to preserve the comments off
      // channel, but could just skip and save token space if not.
      //
      $channel=COMMENTS_CHANNEL;
    }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
   |  {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ----------
// Argument specs
//
```

```
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
       (
          ARG_ACTION

        | ('"')=>ACTION_STRING_LITERAL

        | ('\'')=>ACTION_CHAR_LITERAL

        | ~('['|']')
      )*

     ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action
 code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION
  ( '?' {$type = SEMPRED;}
   ( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
    {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_GATED_SEMPRED, t);
    }
   )?
  )?
 ;
```

```
// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation
 in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertantly match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we belive to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report
 an error against the
    // opening brace that we feel is in error and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
       //
```

```
        ACTION_CHAR_LITERAL

      | // We have assumed that the target language has C/Java
        // type comments.
        //
        COMMENT

      | // What appears to be a literal
        //
        ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
      //
      ACTION_ESC

    | // Some other single character that is not
      // handled above
      //
      ~('\\'|'"'|'\''|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imblanced {} block, report
    // with respect to the opening brace.
    //
    {
        // TODO: Report imbalanced {}
        System.out.println("Block starting  at line " + startLine
 + " offset " + (offset+1) + " contains imbalanced {} or is missing a }");
    }
)
 ;


// Keywords
// --------
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
```

```
OPTIONS     : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS    : 'channels' WSNLCHARS* '{'  ;

IMPORT      : 'import'              ;
FRAGMENT    : 'fragment'            ;
LEXER       : 'lexer'               ;
PARSER      : 'parser'              ;
GRAMMAR     : 'grammar'             ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED   : 'protected'           ;
PUBLIC      : 'public'              ;
PRIVATE
    : 'private'             ;
RETURNS     : 'returns'             ;
LOCALS      : 'locals'              ;
THROWS      : 'throws'              ;
CATCH       : 'catch'               ;
FINALLY     : 'finally'             ;
MODE        : 'mode'                ;

// -----------
// Punctuation
//
// Character sequences used as separators, delimters, operators, etc
//
COLON       : ':'
            {
            // scan backwards, looking for a RULE_REF or TOKEN_REF.
            // which would indicate the start of a rule definition.
            // If we see a LPAREN, then it's the start of the subrule.
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;
                else
 if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON   : '::'                 ;
COMMA       : ','                   ;
SEMI        : ';'                   ;
LPAREN      : '('                   ;
RPAREN      : ')'                   ;
```

```
RARROW      : '->'              ;
LT          : '<'               ;
GT          : '>'               ;
ASSIGN      : '='               ;
QUESTION    : '?'               ;
SYNPRED     : '=>'
    {
     Token t = new CommonToken(input, state.type, state.channel,
                        state.tokenStartCharIndex, getCharIndex()-1);
   t.setLine(state.tokenStartLine);
   t.setText(state.text);
   t.setCharPositionInLine(state.tokenStartCharPositionInLine);
   grammarError(ErrorType.V3_SYNPRED, t);
          $channel=HIDDEN;
   }
        ;
STAR        : '*'
   ;
PLUS        : '+'               ;
PLUS_ASSIGN : '+='              ;
OR          : '|'               ;
DOLLAR      : '$'               ;
DOT       : '.'               ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'              ;
AT          : '@'               ;
POUND       : '#'               ;
NOT         : '~'               ;
RBRACE      : '}'               ;

/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
   {
   if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
   else $type = RULE_REF;
   }
  ;

fragment
NameChar    :   NameStartChar
        |   '0'..'9'
        |   '_'
        |   '\u00B7'
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;

fragment
NameStartChar
```

```
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'

  |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertantly match
 things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertantly match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;
```

```
// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertantly recognize the end of a string or character when the terminating
// delimiter has been esacped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an aribtrary long sequence of digits.
//
INT : ('0'..'9')+
  ;

// ------------
// Source spec
//
//
 A fragment rule for picking up information about an origrinating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// ---------------
// Literal string
//
// ANTLR makes no disticintion between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
     (    '\''
     |    // Unterminated string literal
          {
```

```
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
         t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
        }
    )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
    (
        // The standard escaped character set such as tab, newline,
        // etc.
        //
    'b'|'t'|'n'|'f'|'r'|'\"'|'\''|'\\'

    | // A Java style Unicode escape sequence
      //
      UNICODE_ESC

    | // An illegal escape seqeunce
      //
      {
          Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
          t.setText(t.getText());
          t.setLine(input.getLine());

  t.setCharPositionInLine(input.getCharPositionInLine()-1);
          grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
      }
    )
  ;

fragment
UNICODE_ESC

@init {
```

```
// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get 4. We cannot
      // use an inifinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
    (
      (
        HEX_DIGIT  { hCount++; }
         (
            HEX_DIGIT  { hCount++; }
          (
             HEX_DIGIT  { hCount++; }
             (
                // Four valid hex digits, we are good
                //

            HEX_DIGIT { hCount++; }

              | // Three valid digits
             )

            | // Two valid digits
          )

         | // One valid digit
       )
        )
       | // No valid hex digits at all
    )

    // Now check the digit count and issue an error if we need to
    //
    {
     if (hCount != 4) {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
```

```
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
     }
    }
  ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
     ' '
      | '\t'
      | '\r'
      | '\n'
       | '\f'
    )+
    {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
  : ' ' | '\t' | '\f' | '\n' | '\r'
  ;
```

```
// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
  :  '\uFEFF' {skip();}
  ;

// -----------------
// Illegal Character
//
// This is an
 illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
  : .
    {
      Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
      t.setLine(state.tokenStartLine);
      t.setText(state.text);
      t.setCharPositionInLine(state.tokenStartCharPositionInLine);
      String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
      grammarError(ErrorType.SYNTAX_ERROR, t, msg);
      state.syntaxErrors++;
      skip();
    }
  ;
```

Found in path(s):
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.

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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/templates/depend.stg
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* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
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/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about. This
 prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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*/
```
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
```

```
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if
 ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule)
 { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
                  GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
```

```
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST)
 { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) {
 }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
```

```
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void
 enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST
```

```
 tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void
 exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST
 tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST
 tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
```

```
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :   ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;

prequelConstruct
@init
 {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :   optionsSpec
   |   delegateGrammars
   |   tokensSpec
```

```
  |  channelsSpec
  |  action
  ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
  ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
  :  ^(a=ASSIGN ID v=optionValue)
   {
   if ( block ) blockOption($ID, $v.start); // most specific first
   else if ( rule ) ruleOption($ID, $v.start);
   else grammarOption($ID, $v.start);
   }
  ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
  :  ID
  |  STRING_LITERAL
  |  INT
  ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
```

```
@after {
 exitDelegateGrammars($start);
}
 :  ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init
 {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
  :  ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
  |  id=ID      {importGrammar(null, $id);}
  ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :  ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID     {defineToken($ID);}
 ;

channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :  ^(CHANNELS channelSpec+)
 ;
```

```
channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
    ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
```

```
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
      }
      )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text;
 currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
      ret=ruleReturns?
      thr=throwsSpec?
      loc=locals?
      ( opts=optionsSpec
     |   a=ruleAction {actions.add($a.start);}
     )*
      {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
          $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
          $thr.start, $opts.start,
          $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
          actions, (GrammarAST)input.LT(1));}
      ruleBlock exceptionGroup
      {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
      )
   ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
```

```
 exitExceptionGroup($start);
}
  : exceptionHandler* finallyClause?
  ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,
 (ActionAST)$ACTION);}
 ;

finallyClause
@init {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
```

```
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
  : ^(THROWS ID+)
  ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
  : PUBLIC
  | PRIVATE
  | PROTECTED
  | FRAGMENT
  ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
    }
      lexerOuterAlternative
      )+
    )
  ;
```

```
ruleBlock
@init {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
   currentOuterAltNumber++;
   }
     outerAlternative
    )+
   )
  ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
```

```
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
   : ^(ALT
 lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after {
 exitLexerElement($start);
}
 : labeledLexerElement
 | lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

labeledLexerElement
@init {
 enterLabeledLexerElement($start);
}
@after {
 exitLabeledLexerElement($start);
}
   :   ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
```

```
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
   ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
   :   terminal
   |   ^(NOT blockSet)
   |   blockSet
   |   ^(WILDCARD elementOptions)
   |   WILDCARD
   | LEXER_CHAR_SET
   |   range
   |   ruleref
   ;

actionElement
@init {
 enterActionElement($start);
}
@after
 {
 exitActionElement($start);
}
 : ACTION
 |   ^(ACTION elementOptions)
 |   SEMPRED
 |   ^(SEMPRED elementOptions)
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
   ;
```

```
lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
      {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION
 elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
```

```
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 | block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 | lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
}
```

```
  : ebnfSuffix
  ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after
 {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
```

```
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                  {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                    {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
     |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
    ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
    }
   ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;

terminal
```

```
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
  :  ^(STRING_LITERAL elementOptions)
        {stringRef((TerminalAST)$STRING_LITERAL);}
  | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
  | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
  | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
  ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
  : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
  ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after
 {
 exitElementOption($start);
}
  : ID        {elementOption(t, $ID, null);}
  |  ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  |  ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=ACTION)   {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /antlr4-4-5-1-1-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

1.136 python-requests 2.18.4

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1.137 go-cache 2.1.0

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1.138 llvm 6.0.0

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```
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conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE.
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
 %L34 = load i8, i8* %0
 %Cmp56 = icmp sgt i8 undef, %L34
 br label %CF246

CF246:                                            ; preds = %CF246, %BB
 %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
 br i1 undef, label %CF246, label %CF248

CF248:                                            ; preds = %CF248, %CF246
 store i8 %Sl163, i8* %0
 br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void
```

```
}

define
 void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpaddd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:    vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqu %ymm1, (%rax)
; CHECK-NEXT:    vmovdqu %ymm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %1 = load <64 x i8>, <64 x i8>* %a
 %2 = load <64 x i8>, <64 x i8>*
 %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32
 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, <64 x i8>* undef, align 4
 ret void
}
```

```
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %1 = load <64 x i8>, <64 x i8>* %a
 %2 = load <64 x i8>, <64 x i8>* %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
 i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, <64 x i8>* undef, align 4
 ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-
width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi),
 %ymm1
; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
```

```
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr)
 "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr,
 <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
```

```
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0,
 (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:    vpmaddwd %ymm3,
 %ymm5, %ymm3
; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
```

```
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32>
 [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, i8* %0, i64 %index
 %5 = bitcast i8* %4 to <32 x i8>*
 %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, i8* %1, i64 %index
 %8 = bitcast i8* %7 to <32 x i8>*
 %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32> %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
 %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
 undef, i32 undef, i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
```

```
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
  %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
 %13 = extractelement <32 x i32> %bin.rdx20,
 i32 0
 ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB9_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
;
 CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
```

```
; CHECK-NEXT:    retq
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, i8* %0, i64 %index
 %5 = bitcast i8* %4 to <32 x i8>*
 %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, i8* %1, i64 %index
 %8 = bitcast i8* %7 to <32 x i8>*
 %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32> %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1,
 %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
 %rdx.shuf19 = shufflevector
 <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
```

```
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
 %13 = extractelement <32 x i32> %bin.rdx20, i32 0
 ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header:
 Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 br label %vector.body

vector.body:
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
 %1 = bitcast i8* %0 to <16 x i8>*
 %wide.load = load <16 x i8>,
 <16 x i8>* %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
 %4 = bitcast i8* %3 to <16 x i8>*
```

```
 %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
 %5 = zext <16 x i8> %wide.load1 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index, 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body

middle.block:
 %.lcssa = phi <16 x i32> [ %10, %vector.body ]
 %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32
 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement
 <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB11_1
```

```
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1,
 %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 br label %vector.body

vector.body:
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
 %1 = bitcast i8* %0 to <16 x i8>*
 %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
 %4 = bitcast i8* %3 to <16 x i8>*
 %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
 %5 = zext <16 x i8> %wide.load1 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32>
 %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index, 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body

middle.block:
 %.lcssa = phi <16 x i32> [ %10, %vector.body ]
 %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
```

```
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
 i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask
 = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
```

```
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
;
 CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1,
 (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
```

```
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @ubto16f32_512(<16 x i16>
 %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vpsrld
 $31, %ymm2, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
```

```
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:
   vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
```

```
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16>
 %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask =
 fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
```

```
 ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpunpckhbw
 {{.*#+}} ymm4 =
ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13
],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ym
m0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[
31]
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-NEXT:    vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm2 =
ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[
5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[
19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm0
 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT:    vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT:    vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT:    vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm2 =
ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13
],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ym
m0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[
31]
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13
],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ym
m0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[
31]
; CHECK-NEXT:    vpmullw %ymm2, %ymm4, %ymm2
; CHECK-NEXT:    vpand %ymm5, %ymm2, %ymm2
; CHECK-NEXT:    vpunpcklbw {{.*#+}}
 ymm3 =
ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[
5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[
19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
```

```
; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm1 =
ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[
5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[
19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-NEXT:    vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT:    vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT:    vpackuswb %ymm2, %ymm1, %ymm1
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <64 x i8>, <64 x i8>* %a
 %e = load <64 x i8>, <64 x i8>* %b
 %f = mul <64 x i8> %d, %e
 store <64 x i8> %f, <64 x i8>*
 %c
 ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[
45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[
63]
; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
;
 CHECK-NEXT:    vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT:    vmovdqa64 {{.*#+}} zmm3 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,2
55,255,255,255,255,255]
; CHECK-NEXT:    vpandq %zmm3, %zmm2, %zmm2
; CHECK-NEXT:    vpunpcklbw {{.*#+}} zmm1 =
zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5]
,zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19]
,zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm
0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1
[51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
```

```
; CHECK-NEXT:    vpunpcklbw {{.*#+}}
 zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-NEXT:    vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT:    vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <64 x i8>, <64 x i8>* %a
 %e = load <64 x i8>, <64 x i8>* %b
 %f = mul <64 x i8> %d, %e
 store <64 x i8> %f, <64 x i8>* %c
 ret void
}
```

```
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Program Directory
------- ---------
<none yet>

```
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC256-NEXT:
  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
```

```
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8 x i16>
 undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of
 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
```

```
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found
 an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D
 = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of
 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
```

```
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16> undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %E
 = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for
 instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
```

;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16>
 undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

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*/

```
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
```

```
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
 br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:                                 ; preds = %entry
 br label %while.body

while.body:                                       ; preds = %exit.2, %while.body.lr.ph
 %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
 switch i32 undef, label %exit [
   i32 1, label %sw.bb.i
   i32 2, label %sw.bb3.i
 ]

sw.bb.i:                                          ; preds = %while.body
 unreachable

sw.bb3.i:                                         ; preds = %while.body
 unreachable

exit:
                                                  ; preds = %while.body
 switch i32 undef, label %exit.2 [
   i32 1, label %sw.bb.i17
   i32 2, label %sw.bb3.i20
 ]

sw.bb.i17:                                        ; preds = %.exit
 %0 = bitcast %struct.0* %lsr.iv to i32*
 %1 = load i32, i32* %0, align 4
 unreachable

sw.bb3.i20:                                       ; preds = %exit
 %2 = bitcast %struct.0* %lsr.iv to i8**
 %3 = load i8*, i8** %2, align 4
 unreachable

exit.2:                                           ; preds = %exit
 %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
 br label %while.body

while.end:                                        ; preds = %entry
 ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

```
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
 ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
 ret void
}

define internal void @innerNoAttribute() {
 ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
 call void @innerSmall()
 ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
 call void @innerNoAttribute()
 ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK:
 define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
```

```
; CHECK-LABEL: test_sitofp_fixed:

 ; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

 ; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
 %flt = sitofp <16 x i32>
 %in to <16 x double>
 %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
 ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
 %flt = sitofp <4 x i64> %in to <4 x double>
 %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
 ret <4 x double> %res
}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
```

```
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# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# https://developers.google.com/open-source/cla/individual
# https://developers.google.com/open-source/cla/corporate
#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file as:
#     Name <email address>
#
# Please keep the list sorted.

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Yixuan Qiu <yixuanq@gmail.com>
Yusuke Suzuki <utatane.tea@gmail.com>
Zbigniew Skowron <zbychs@gmail.com>
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8*
 %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7

```
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
 %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
 %1 = load volatile
 i8, i8* inttoptr (i32 805874692 to i8*)
 %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
 %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
 %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
 store i8 %4, i8* inttoptr(i32 805873688 to i8*)
 store i8 %3, i8* inttoptr(i32 805873719 to i8*)
 store i8 %2, i8* inttoptr(i32 805873720 to i8*)
 store i8 %1, i8* inttoptr(i32 805873727 to i8*)
 store i8* inttoptr(i32 805874800 to i8*), i8** @goo
 ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
```

```
 %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
 %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
 %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
 %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
 %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
 %5 = load volatile i16, i16* inttoptr (i32 805874774
 to i16*), align 2
 ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT:  %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT:  %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT:  %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT:  %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT:  %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
 12
; CHECK-NEXT:  %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT:  %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
 %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
 %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
 %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
 %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
 %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
 %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
 ret void
}
```

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```
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
 %cmp = fcmp ogt fp128 %a, %b
 %sub = fsub fp128 %a, %b
 %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
 ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK        movaps 16(%rsp), %xmm1
; CHECK-NEXT   callq __subtf3
; CHECK-NEXT   testl %ebx, %ebx
; CHECK-NEXT   jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT   movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT   addq $32, %rsp
; CHECK-NEXT   popq %rbx
; CHECK-NEXT   retq
}
```

```
define fp128 @TestFabs(fp128 %a) {
 %res = call fp128 @llvm.fabs.f128(fp128 %a)
 ret fp128 %res
; CHECK-LABEL: TestFabs:
;
 CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
 %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
 ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK      andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
 %mul = fmul fp128 %a, %a
 %res = fsub fp128 0xL00000000000000008000000000000000, %mul
 ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK      movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}
```

1.139 bouncycastle-fips 1.0.2

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1.140 serf 1.3.9-3

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1.141 snake-yaml 1.26

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1.142 logrus 1.5.0

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1.146 quartz 2.3.2

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1.147 mitchellh-mapstructure 1.3.0

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1.148 goleveldb 1.0.0

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1.150 go-playground-validator 10.2.0

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1.151 gorilla 1.7.4

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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#
Please keep the list sorted.
#
Use the following command to generate the list
#
git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
and do appropriate cleanups.

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lib/st/README
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.157 mhash 0.9.9.9-4

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

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1.158 libxml2 2.9.8-1

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1.159 gnutls 3.5.18

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1.164 pycparser 2.18

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Version 3, 29 June 2007

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clarify this fact.

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

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

==========

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<!-- Id -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

```
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
```

- End:
-->
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1.168 libidn 2.0.4

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

<one line to give the program's name and a brief idea of what it does.>
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Version 2.1, February 1999

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the work with the complete corresponding
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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.176 nss 3.37.1

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need not make them do so.
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@item
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(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium customarily
used for software interchange.

@item
Convey the object code in, or embodied in, a physical product
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for software interchange, for a price no more than your reasonable
cost of physically performing this conveying of source, or (2) access
to copy the Corresponding Source from a network server at no charge.

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Convey the object code by offering access from a designated place
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README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
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* m4/ax_func_which_gethostbyname_r.m4

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<one line to give the program's name and a brief idea of what it does.>
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Defining a subclass of a class defined by the Library is
deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
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object code and/or source code for the Application, including any data
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If you modify a copy of the Library, and, in your modifications, a
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facility is invoked), then you may convey a copy of the modified
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function or data, the facility still operates, and performs
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1) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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==========

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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@center Version 2.1, February 1999

@display

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@appendixsubsec Preamble

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with the library after making changes to the library and recompiling
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We protect your rights with a two-step method: (1) we copyright the

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introduced by others.

Finally, software patents pose a constant threat to the existence of
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When a program is linked with a library, whether statically or using
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combined work, a derivative of the original library.
The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the @dfn{Lesser} General Public License because it
does @emph{Less} to protect the user's freedom than the ordinary General
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of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free

libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former contains code derived from the
library, whereas the latter must
be combined with the library in order to run.

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

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@enumerate a
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The modified work must itself be a software library.

@item
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@item

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charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However,
linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.
(Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices,
you must include the
copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time

a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
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@item
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@end enumerate

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@enumerate a
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facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
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1.178 libgpg-error 1.28

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1.179 gc 6.4.0

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1.180 commons-lang3 3.1

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1.181 jackson-jaxrs-base 2.9.9

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1.182 libjpeg 8d

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It is partly based on the libjpeg6a package originally put together by
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1.183 openssh 7.5p1

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[Tatu continues]
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- The make-ssh-known-hosts script is no longer included
- TSS has been removed

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[The licence continues]

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* @version 3.0 (December 2000)
*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.186 colorama 0.4.1

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1.187 traceback2 1.4.0

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1.188 linecache 1.0.0

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1.189 linenoise 1.0

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1.191 docutils 0.14

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI) in the Netherlands as a successor of a
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includes many contributions from others. The last version released
from CWI was Python 1.2. In 1995, Guido continued his work on Python
at the Corporation for National Research Initiatives (CNRI) in Reston,
Virginia where he released several versions of the software. Python
1.6 was the last of the versions released by CNRI. In 2000, Guido and
the Python core development team moved to BeOpen.com to form the
BeOpen PythonLabs team. Python 2.0 was the first and only release
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Following the release of Python 1.6, and after Guido van Rossum left
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

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@sp 1
@page
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any

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1.199 libarchive 3.1.2

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1.200 openssh 7.5

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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
```

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1.201 libarchive 3.3.1

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1.202 python3-asn1crypto 0.22.0

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1.203 snowball-stemmer 1.2.0

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1.204 bind 9.16.8

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

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

==========

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
 name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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     file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
```

```
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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1.208 asm 5.0.3

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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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

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* /asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/package.html
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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/ASMContentHandler.java
*
 /asm-5-0-3-sources-7-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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* Creates a new JSRInliner. Subclasses must not use this
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* {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.
*
* @param mv
*
the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see {@link Opcodes}). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type}).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* {@link Type#getInternalName() getInternalName}). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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

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* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Label.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Item.java
*
 /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
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* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/BasicValue.java

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* /asm-5-0-3-sources-7-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TypeInsnNode.java
*
 /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Edge.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/Method.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Frame.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/ClassReader.java
*
 /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
*
 /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Context.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/IntInsnNode.java

* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Type.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnList.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckClassAdapter.java
*
/asm-5-0-3-sources-7-jar/org/objectweb/asm/Handler.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
*
/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldWriter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
*
/asm-5-0-3-sources-7-jar/org/objectweb/asm/Handle.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Attribute.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/Opcodes.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/ASMifier.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/Printer.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/commons/InstructionAdapter.java

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

Found in path(s):
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/ClassNode.java
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* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/ASMifiable.java
* /asm-5-0-3-sources-7-jar/org/objectweb/asm/util/Textifiable.java

1.209 commons-logging 1.2

1.209.1 Available under license :

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* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
*
 /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
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1.210 bcel 2.7.2

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
```

```
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC  _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern
 was declared.
   */
  private int _lineNumber = 0;

  /**
   * Reference to the symbol table.
   */
  public SymbolTable _symbolTable;

  public XPathParser(Parser parser) {
      _parser = parser;
_xsltc = parser.getXSLTC();
      _symbolTable = parser.getSymbolTable();
  }

  public int getLineNumber() {
```

```
    return _lineNumber;
  }

  public QName getQNameIgnoreDefaultNs(String name) {
      return _parser.getQNameIgnoreDefaultNs(name);
  }

  public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
  }

  public void setMultiDocument(boolean flag) {
      _xsltc.setMultiDocument(flag);
  }

  public void setCallsNodeset(boolean flag) {
      _xsltc.setCallsNodeset(flag);
  }

  public void setHasIdCall(boolean flag) {
      _xsltc.setHasIdCall(flag);
  }


  /**
   * This
method is similar to findNodeType(int, Object) except that it
   * creates a StepPattern instead of just returning a node type. It also
   * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
   * patterns are expanded as "*[namespace-uri() = 'uri']" and
   * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
   * simplifies the grouping of patterns in the Mode class. For this
   * expansion to be correct, the priority of the pattern/template must be
   * set to -0.25 (when no other predicates are present).
   */
  public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
      }
      else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();
```

```
  return new StepPattern(axis, nodeType, predicates);
     }
     else {
   QName name = (QName)test;
   boolean setPriority = false;

   if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
  : _xsltc.registerNamespacePrefix(name);;
        }
   else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
 predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
 new Predicate(
     new EqualityExpr(Operators.EQ,
  new NamespaceUriCall(namespace_uri),
  new LiteralExpr(uri))));
 }

 if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
 }
 else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
 }
   }

   final StepPattern result = new StepPattern(axis, nodeType, predicates);
```

```
    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
 result.setPriority(-0.25);
    }

    return result;
}
  }

  public int findNodeType(int axis, Object test) {
if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ?
 NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
      }
      else if (test instanceof Integer) {
          return ((Integer)test).intValue();
      }
      else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
 return (name.toString().equals("*"))
? -1
     : _xsltc.registerNamespacePrefix(name);
          }

    if (name.getNamespace() == null) {
 final String local = name.getLocalPart();

 if (local.equals("*")) {
     return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
  : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
     return NodeTest.ATTRIBUTE;
 }
    }

    return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
      }
  }

  /**
   * Parse the expression passed to the current scanner. If this
   * expression contains references to local variables and it will be
   * compiled in an external module (not in the main class) request
```

```
   * the current template to create a new variable stack frame.
   *
   * @param lineNumber Line where the current expression is defined.
   * @param external   Set to <tt>true</tt> if this expression is
   *                   compiled in a separate module.
   *

   */
  public Symbol parse(String expression, int lineNumber) throws Exception {
     try {
   _expression = expression;
   _lineNumber = lineNumber;
   return super.parse();
     }
     catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                    lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
     }
     return null;
  }

  /**
   * Lookup a variable or parameter in the symbol table given its name.
   *
   * @param name Name of the symbol being looked up.
   */
  final SyntaxTreeNode lookupName(QName name) {
     // Is it a local var or param ?
     final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
        return(result);
     else
    return(_symbolTable.lookupName(name));
  }

  public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR,
error);
  }

  public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
_parser.reportError(Constants.FATAL, err);
  }

  public void report_fatal_error(String message, Object info) {
```

```
      // empty
  }

  public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
 if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
 }
 else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
 }
 else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
 }
  }

  /**
   * Returns true if the axis applies to elements only. The axes
   * child, attribute, namespace, descendant
 result in non-empty
   * nodesets only if the context node is of type element.
   */
  public boolean isElementAxis(int axis) {
 return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
  axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
  }
:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
```

```
non terminal Expression Predicate, FilterExpr, Step;
non
 terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal
 Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
        {: RESULT = pattern; :}

        | EXPRESSION Expr:expr
        {: RESULT = expr; :};

/* --------------------------- Patterns ---------------------------------- */
```

```
Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}

        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};

LocationPathPattern ::= SLASH
        {: RESULT = new AbsolutePathPattern(null); :}

        | SLASH RelativePathPattern:rpp
        {: RESULT = new AbsolutePathPattern(rpp); :}

        | IdKeyPattern:ikp

      {: RESULT = ikp; :}

        | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(ikp, rpp); :}

        | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(ikp, rpp); :}

        | DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(rpp); :}

        | RelativePathPattern:rpp
        {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
        {: RESULT = new IdPattern(l);
          parser.setHasIdCall(true);
        :}

        | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
        {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
        {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
        {: RESULT = sp; :}

        | StepPattern:sp SLASH RelativePathPattern:rpp
        {: RESULT
 = new ParentPattern(sp, rpp); :}

        | StepPattern:sp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(sp, rpp); :};
```

```
StepPattern ::= NodeTestPattern:nt
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
        :}

        | NodeTestPattern:nt Predicates:pp
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
        :}

        | ProcessingInstructionPattern:pip
        {: RESULT = pip; :}

    | ProcessingInstructionPattern:pip Predicates:pp
        {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

        | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, null);
        :}

    | ChildOrAttributeAxisSpecifier:axis
   NodeTestPattern:nt Predicates:pp
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
         :}

        | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
        {:
      RESULT = pip;  // TODO: report error if axis is attribute
    :}

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
  Predicates:pp
        {:
      // TODO: report error if axis is attribute
      RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern ::= NameTestPattern:nt
        {: RESULT = nt; :}

        | NODE
        {: RESULT = new Integer(NodeTest.ANODE); :}

        | TEXT
        {: RESULT = new Integer(NodeTest.TEXT); :}
```

```
        | COMMENT
        {: RESULT = new Integer(NodeTest.COMMENT); :}

        | PI
        {: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN

        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD DCOLON
        {: RESULT = new Integer(Axis.CHILD); :}

        | ATTRIBUTE DCOLON
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
        {:
  Vector temp = new Vector();
  temp.addElement(p);
  RESULT = temp;
        :}

        | Predicate:p Predicates:pp
        {: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::=  LBRACK Expr:e RBRACK
    {:
  RESULT = new Predicate(e);
    :};

/* --------------------------- Expressions ---------------------------------- */

Expr ::= OrExpr:ex
      {: RESULT = ex; :};

OrExpr ::= AndExpr:ae
      {: RESULT = ae; :}

      | OrExpr:oe OR AndExpr:ae
      {: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};
```

```
AndExpr ::= EqualityExpr:e
      {: RESULT = e; :}

      | AndExpr:ae AND EqualityExpr:ee
      {: RESULT = new LogicalExpr(LogicalExpr.AND,
 ae, ee); :};

EqualityExpr ::= RelationalExpr:re
      {: RESULT = re; :}

      | EqualityExpr:ee EQ RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

      | EqualityExpr:ee NE RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
      {: RESULT = ae; :}

      | RelationalExpr:re LT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

      | RelationalExpr:re GT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

      | RelationalExpr:re LE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

      | RelationalExpr:re GE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
      {: RESULT = me; :}

      | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.PLUS,
 ae, me); :}

      | AdditiveExpr:ae MINUS MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
      {: RESULT = ue; :}

      | MultiplicativeExpr:me MULT UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}
```

```
      | MultiplicativeExpr:me DIV UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

      | MultiplicativeExpr:me MOD UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
      {: RESULT = ue; :}

      | MINUS UnaryExpr:ue
      {: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
      {: RESULT = pe; :}

      | PathExpr:pe VBAR UnionExpr:rest
      {: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
      {: RESULT = lp; :}

      | FilterExpr:fexp
      {: RESULT = fexp; :}

      | FilterExpr:fexp
 SLASH RelativeLocationPath:rlp
      {: RESULT = new FilterParentPath(fexp, rlp); :}

      | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
       parser.isElementAxis(((Step) rlp).getAxis()))
   {
       nodeType = DTM.ELEMENT_NODE;
   }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        FilterParentPath fpp = new FilterParentPath(fexp, step);
        fpp = new FilterParentPath(fpp, rlp);
        if (fexp instanceof KeyCall == false) {
            fpp.setDescendantAxis();
   }
        RESULT = fpp;
      :};
```

```
LocationPath ::= RelativeLocationPath:rlp
      {: RESULT = rlp; :}

      | AbsoluteLocationPath:alp
      {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
      {: RESULT
 = step; :}

      | RelativeLocationPath:rlp SLASH Step:step
      {:
      if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
           RESULT = step;       // Remove './' from the middle
      }
      else if (((Step) step).isAbbreviatedDot()) {
           RESULT = rlp;        // Remove '/.' from the end
      }
      else {
          RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
        }
      :}

      | AbbreviatedRelativeLocationPath:arlp
      {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
      {: RESULT = new AbsoluteLocationPath(); :}

      | SLASH RelativeLocationPath:rlp
      {: RESULT = new AbsoluteLocationPath(rlp); :}

      | AbbreviatedAbsoluteLocationPath:aalp
      {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
      {:
    final Step right  = (Step)step;
          final
 int  axis   = right.getAxis();
          final int  type   = right.getNodeType();
          final Vector predicates = right.getPredicates();

          if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
             // Compress './/child:E' into 'descendant::E' - if possible
             if (predicates == null) {
```

```
            right.setAxis(Axis.DESCENDANT);
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
          RESULT = right;
            }
            else {
               // Expand 'rlp//child::E' into 'rlp/descendant::E'
               RelativeLocationPath left = (RelativeLocationPath)rlp;
          RESULT = new ParentLocationPath(left, right);
            }
         }
         else {
            // Expand './/step' -> 'descendant-or-self::*/step'
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

      Step left = new Step(Axis.DESCENDANTORSELF,
   DTM.ELEMENT_NODE, null);
               RESULT = new ParentLocationPath(left, right);
            }
            else {
               // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
               RelativeLocationPath left = (RelativeLocationPath)rlp;
               Step mid = new Step(Axis.DESCENDANTORSELF,
   DTM.ELEMENT_NODE, null);
               ParentLocationPath ppl = new ParentLocationPath(mid, right);
               RESULT = new ParentLocationPath(left, ppl);
            }
         }
      }
      else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
         // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
         RelativeLocationPath left = (RelativeLocationPath)rlp;
         Step middle = new Step(Axis.DESCENDANTORSELF,
   DTM.ELEMENT_NODE, null);

         ParentLocationPath ppl = new ParentLocationPath(middle, right);
         RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
         RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
   DOM.NO_TYPE, null);
         ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
   :};
```

```
AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
   {
      nodeType = DTM.ELEMENT_NODE;
   }
   final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
   RESULT =
 new AbsoluteLocationPath(parser.insertStep(step,
   (RelativeLocationPath) rlp));
 :};

Step ::= NodeTest:ntest
      {:
         if (ntest instanceof Step) {
            RESULT = (Step)ntest;
         }
         else {
  RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
         }
      :}

      | NodeTest:ntest Predicates:pp
      {:
         if (ntest instanceof Step) {
            Step step = (Step)ntest;
            step.addPredicates(pp);
            RESULT = (Step)ntest;
         }
         else {
            RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest), pp);
         }
      :}

      | AxisSpecifier:axis NodeTest:ntest Predicates:pp
      {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                     pp);
      :}
```

```
    | AxisSpecifier:axis NodeTest:ntest
    {: RESULT = new Step(axis.intValue(),
                         parser.findNodeType(axis.intValue(), ntest),
                         null);
    :}

    | AbbreviatedStep:abbrev
    {: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
    {: RESULT = an; :}

    | ATSIGN
    {: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::=    ANCESTOR
    {: RESULT = new Integer(Axis.ANCESTOR); :}

    | ANCESTORORSELF
    {: RESULT = new Integer(Axis.ANCESTORORSELF); :}

    | ATTRIBUTE
    {: RESULT = new Integer(Axis.ATTRIBUTE); :}

    | CHILD
    {: RESULT = new Integer(Axis.CHILD); :}

    | DESCENDANT
    {: RESULT = new Integer(Axis.DESCENDANT); :}

    | DESCENDANTORSELF
    {: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

    | FOLLOWING
    {: RESULT = new
 Integer(Axis.FOLLOWING); :}

    | FOLLOWINGSIBLING
    {: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

    | NAMESPACE
    {: RESULT = new Integer(Axis.NAMESPACE); :}

    | PARENT
    {: RESULT = new Integer(Axis.PARENT); :}

    | PRECEDING
```

```
      {: RESULT = new Integer(Axis.PRECEDING); :}

      | PRECEDINGSIBLING
      {: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

      | SELF
      {: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
      {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

      | DDOT
      {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::=  PrimaryExpr:primary
      {: RESULT = primary; :}

      | PrimaryExpr:primary Predicates:pp
      {: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
      {: RESULT = vr; :}

      | LPAREN Expr:ex RPAREN
      {: RESULT = ex; :}

| Literal:string
{:

/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
   final String prefix = string.substring(0, index);
   namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
     : new LiteralExpr(string, namespace);
:}

      | INT:num
      {:
```

```
  long value = num.longValue();
  if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
 RESULT = new RealExpr(value);
  }
  else {
        if (num.doubleValue() == -0)
          RESULT = new RealExpr(num.doubleValue());
        else if (num.intValue() == 0)
          RESULT = new IntExpr(num.intValue());

     else if (num.doubleValue() == 0.0)
          RESULT = new RealExpr(num.doubleValue());
        else
          RESULT = new IntExpr(num.intValue());
  }
    :}

    | REAL:num
    {: RESULT = new RealExpr(num.doubleValue()); :}

    | FunctionCall:fc
    {: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
    {:
      // An empty qname prefix for a variable or parameter reference
      // should map to the null namespace and not the default URI.
      SyntaxTreeNode node = parser.lookupName(varName);

      if (node != null) {
        if (node instanceof Variable) {
          RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
          RESULT = new ParameterRef((Param)node);
        }
        else {
          RESULT = new UnresolvedRef(varName);
         }
      }

      if (node == null) {
        RESULT = new UnresolvedRef(varName);
      }
    :};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
    {:
```

```
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
      RESULT = new CurrentCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
      RESULT = new NumberCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
      RESULT = new StringCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
      RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
      RESULT = new BooleanExpr(true);
}
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {

 RESULT = new BooleanExpr(false);
}
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
      RESULT = new NameCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
      RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
      RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
      RESULT = new PositionCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
      RESULT = new LastCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
      RESULT = new LocalNameCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
      RESULT = new NamespaceUriCall(fname);

}
    else {
      RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
   :}

   | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
```

```
    {:
      if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
     parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

     RESULT = new NameCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
        RESULT = new NotCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
        RESULT = new FormatNumberCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
        RESULT = new UnparsedEntityUriCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
        parser.setHasIdCall(true);
    }
      else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
   {
        RESULT = new CeilingCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
        RESULT = new RoundCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
```

```
        RESULT = new FloorCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
        RESULT = new ContainsCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
        RESULT = new StartsWithCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
        RESULT = new FunctionAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
  {
        RESULT = new ElementAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
        RESULT = new LangCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname, argl);
    }
        else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
        RESULT = new CastCall(fname, argl);
    }
    // Special case for extension function nodeset()
        else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
      parser.setCallsNodeset(true);  // implies MultiDOM
        RESULT = new FunctionCall(fname, argl);
    }
        else {
        RESULT = new FunctionCall(fname, argl);
    }
    :};

  NonemptyArgumentList
   ::= Argument:arg
        {:
          Vector temp = new Vector();
          temp.addElement(arg);
          RESULT = temp;
        :}
```

```
      | Argument:arg COMMA NonemptyArgumentList:argl
      {: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
      {:
    RESULT = fname;
 :};

VariableName ::= QName:vname
      {:
    RESULT = vname;
 :};

Argument ::= Expr:ex
      {: RESULT = ex; :};

NodeTest ::= NameTest:nt
      {: RESULT = nt; :}

      | NODE
      {: RESULT = new Integer(NodeTest.ANODE); :}

      | TEXT
      {: RESULT = new Integer(NodeTest.TEXT); :}

      | COMMENT
      {: RESULT = new Integer(NodeTest.COMMENT); :}

      | PIPARAM LPAREN Literal:l RPAREN
      {:
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
                                  new NameCall(name),
                                   new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
      :}

      | PI
      {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
          {: RESULT = null; :}

          | QName:qn
          {: RESULT = qn; :};
```

```
QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

 | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

    | ANCESTOR
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | ANCESTORORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

    | ATTRIBUTE
    {: RESULT
 = parser.getQNameIgnoreDefaultNs("attribute"); :}

    | CHILD
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | DESCENDANT
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

    | DESCENDANTORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

    | FOLLOWING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

    | FOLLOWINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

    | NAMESPACE
    {: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

    | PARENT
    {: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

    | PRECEDING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

    | PRECEDINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}
```

```
      | SELF
      {: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}


    | ID
      {: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * Major version number.
  * Version number. This changes only when there is a
  *         significant, externally apparent
 enhancement from
  *         the previous release. 'n' represents the n'th
  *         version.
  *
  *         Clients should carefully consider the implications
  *         of new versions as external interfaces and behaviour
  *         may have changed.
  */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* This is a special exception that is used to stop parsing when
* search for an element.  For instance, when searching
 for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
```

```
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
      int last;

      void initialize() {
         last = -1;
      }

      static boolean isWhitespace(int c) {
         return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
      }

      /**
       * If symbol is not followed by '::' or '(', then treat it as a
       * name instead of an axis or function (Jira-1912).
       */
      Symbol disambiguateAxisOrFunction(int ss) throws Exception {
         // Peek in the input buffer without changing the internal state
         int index = yy_buffer_index;

         // Skip whitespace
         while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
         }

         // If end of buffer, can't disambiguate :(

       if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
```

```
        }

        // Return symbol if next token is '::' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
                yy_buffer[index] == '(') ?
                newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * name instead of a keyword (Jira-1912).
     */
    Symbol disambiguateOperator(int ss) throws Exception {
        switch (last) {
        case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case
sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
        }
        return newSymbol(ss);
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * wildcard instead of a multiplication operator
     */
```

```
    Symbol disambiguateStar() throws Exception {
      switch (last) {
      case -1:    // first token
      case sym.ATSIGN:
      case sym.DCOLON:
      case sym.LPAREN:
      case sym.LBRACK:
      case sym.COMMA:

case sym.AND:
      case sym.OR:
      case sym.MOD:
      case sym.DIV:
      case sym.MULT:
      case sym.SLASH:
      case sym.DSLASH:
      case sym.VBAR:
      case sym.PLUS:
      case sym.MINUS:
      case sym.EQ:
      case sym.NE:
      case sym.LT:
      case sym.LE:
      case sym.GT:
      case sym.GE:
        return newSymbol(sym.STAR);
      }
      return newSymbol(sym.MULT);
    }

    Symbol newSymbol(int ss) {
      last = ss;
      return new Symbol(ss);
    }

    Symbol newSymbol(int ss, String value) {
      last = ss;
      return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Long value) {
      last = ss;
      return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Double value) {
      last = ss;
      return new
```

```
 Symbol(ss, value);
      }
%}

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]


CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
```

```
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-
\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-
\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-
\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-
\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]


Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-
\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-
\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."|"-"|"_"|{CombiningChar}|{Extender}|{NCNameStartChar}|
 \u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                 { return disambiguateStar(); }
"/"                 { return newSymbol(sym.SLASH); }
"+"                 { return newSymbol(sym.PLUS); }
"-"                 { return newSymbol(sym.MINUS); }
"div"               { return disambiguateOperator(sym.DIV); }
"mod"               { return disambiguateOperator(sym.MOD); }
"::"                { return newSymbol(sym.DCOLON); }
","                 { return newSymbol(sym.COMMA); }
"@"                 { return newSymbol(sym.ATSIGN); }
".."                { return newSymbol(sym.DDOT); }
"|"
  { return newSymbol(sym.VBAR); }
"$"                 { return newSymbol(sym.DOLLAR); }
"//"                { return newSymbol(sym.DSLASH); }
"="                 { return newSymbol(sym.EQ); }
"!="                { return newSymbol(sym.NE); }
```

```
"<"                    { return newSymbol(sym.LT); }
">"                    { return newSymbol(sym.GT); }
"<="                   { return newSymbol(sym.LE); }
">="                   { return newSymbol(sym.GE); }
"id"                   { return disambiguateAxisOrFunction(sym.ID); }
"key"                  { return disambiguateAxisOrFunction(sym.KEY); }
"text()"               { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"               { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"            { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction"
 { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"          { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"                   { return disambiguateOperator(sym.OR); }
"and"                  { return disambiguateOperator(sym.AND); }
"child"                { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"            { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"             { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"     { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"           { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"   { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"            { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"    { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING);
 }
"namespace"            { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"               { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"            { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"    { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"                 { return disambiguateAxisOrFunction(sym.SELF); }
"["                    { return newSymbol(sym.LBRACK); }
"]"                    { return newSymbol(sym.RBRACK); }
"("                    { return newSymbol(sym.LPAREN); }
")"                    { return newSymbol(sym.RPAREN); }
"<PATTERN>"            { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"         { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"             { return newSymbol(sym.Literal,
      yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'             { return newSymbol(sym.Literal,
      yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+               { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?   { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+            { return newSymbol(sym.REAL, new Double(yytext())); }
"."                    { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
```

```
({NCName}":")?"*"        { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"       { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]              { /* ignore white space. */ }
.                        { throw new Exception(yytext()); }
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
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*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
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 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/XSLTCSource.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java
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/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTableVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
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/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh_TW.java
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* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncRound.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IntExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Fallback.java
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* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLang.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/NamespaceMappings.java
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 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValue.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_tr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Key.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncId.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ContainsCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_sv.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/LongArrayWrapper.java
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 /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemPI.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SecuritySupport.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringDefault.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource_Xerces.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
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* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNormalizeSpace.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RtMethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMSafeStringPool.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/BasisLibrary.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Parameter.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCopy.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/VariableRefBase.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemComment.java
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* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Lexer.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/DOM3Serializer.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Predicate.java
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/xalan-2-7-2-sources-jar/org/apache/xml/utils/NodeVector.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SuballocatedIntVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SingleNodeCounter.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SerializableLocatorImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/EnvironmentCheck.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltStrings.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundle.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AlternativePattern.java
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/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Neg.java
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* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNull.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMErrorHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MultiHashtable.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XRTreeFrag.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceManager.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XObject.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionScript.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ClonerToResultTree.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPart.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOM.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/serialize/DOMSerializer.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemIf.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalParamDecl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionNamespaceContext.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/PositionCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemApplyImport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ParameterRef.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Template.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_sk.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMLocatorImpl.java
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/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorStylesheetElement.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/PsuedoNames.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshotImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/Util.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMDOMException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/RoundCall.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ObjectFactory.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntStack.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/StackGuard.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/IntType.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CompilerException.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstringAfter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CachedNodeListIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/TemplateSubPatternAssociation.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_zh_CN.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_sk.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NamespaceUriCall.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNamespace.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_it.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Constants.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SAXSourceLocator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MarkerInstruction.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/CollatorFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sk.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnsupportedElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_ru.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/StringType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariable.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Or.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/EmptyFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_sk.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/KeyDeclaration.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TestSeq.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/StringStack.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerExsltFunction.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Node.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/DTMDocument.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/Transform.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_en.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SortingIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/XPathParser.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/WriterToUTF8Buffered.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NotCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StringCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltCommon.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/XConnection.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFunction.java

* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ko.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorUnknown.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathNamespaceImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Mod.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AbsolutePathPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Variable.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/AttList.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/ReverseAxesWalker.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/UnionPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathContext.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Include.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWithParam.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CurrentNodeListFilter.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodType.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/WhitespaceStrippingElementMatcher.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Attribute.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CopyOf.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Attributes.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/MatchPatternIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/DupFilterIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/NodeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitor.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanTransformState.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariablePsuedo.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_hu.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ru.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/Expression.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/TransformStateSetter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathEvaluatorImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionCall.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/RTFIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeListBase.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/LocPathIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_pt_BR.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorInclude.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Message.java

* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLString.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionDecl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/WrappedRuntimeException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_de.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/SecuritySupport.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/utils/BoolStack.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_it.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtElementAvailable.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ArgumentList.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/DTMXRTreeFrag.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AncestorPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/EqualityExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_en.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildTestIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ForEach.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_de.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringComparable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Expression.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ApplyImports.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/ConnectionPoolManager.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorAttributeSet.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Quo.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/NSInfo.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/ExpandedNameTable.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/QName.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/GenerateIdCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshot.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/QueryParameter.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Param.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ru.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SlotAllocator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Number.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_el.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/Stylesheet.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIteratorSimple.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ConcatCall.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_de.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ResultNameSpace.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorLRE.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_A.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_cs.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMConfigurationException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/XUnresolvedVariable.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncFalse.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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*
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* /xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
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* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
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* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
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* /xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
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 /xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
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*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{

 /**
  * Get the basic version string for the current Serializer.
  * Version String formatted like
  * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command
 line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
```

```
{
  System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
  return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *          may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This
changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static int getReleaseVersionNum()
```

```
{
 return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
 return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *         a specific release. D01 is the first development
drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
 try {
    if ((new String("@version.DEVELOPER@")).length() == 0)
      return 0;
    else
      return Integer.parseInt("@version.DEVELOPER@");
 } catch (NumberFormatException nfe) {
       return 0;
 }
}
}
```

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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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*/

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// Proprietary
/** The 'document-location()' id (Proprietary). */

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*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
   System.out.println(S_VERSION);
 }

 /**
  * Constant name of product.
  */
 public static final String PRODUCT = "Xalan";

 /**
  * Implementation Language.
  */
 public static final String LANGUAGE = "Java";
```

```
/**
 * Major version number.
 * Version number. This changes only when there is a
 *      significant, externally apparent enhancement from
 *      the previous release. 'n' represents the n'th
 *      version.
 *
 *      Clients should carefully consider
the implications
 *      of new versions as external interfaces and behaviour
 *      may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *      drop applied to a specific release and contains
 *      fixes for defects reported. It maintains compatibility
 *      with the release and contains no API changes.
 *      When missing, it designates the final and complete
 *      development drop for a release.
 */
public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *      a specific release. D01 is the first development drop
 *      of a new release.
 *
 *      Development drops are works in progress towards a
 *      compeleted, final release. A specific development drop
 *      may not completely implement all aspects of a new
 *      feature, which may take several development drops to
 *      complete. At the point of the final drop for the
```

```
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
                        +VERSION+"."+RELEASE+"."
                        +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
                         : (""+MAINTENANCE));

}
```

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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
 */
```

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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative
 class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
* org.apache.xalan.processor.Version class.</P>
```

```
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

 /**
  * Get the basic version string for the current Xalan release.
  * Version String formatted like
  * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."

      +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
  * Name of product: Xalan.
  */
 public static String getProduct()
 {
  return "Xalan";
 }

 /**
  * Implementation Language: Java.
  */
 public static String getImplementationLanguage()
 {
```

```
 return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *
        may have changed.
 */
public static int getMajorVersionNum()
{
 return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *           - a new set of functionality is to be added, eg,
 *             implementation of a new W3C specification.
 *           - API or behaviour change.
 *           - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
 return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *          drop applied to a specific release and contains
 *          fixes for defects reported. It maintains compatibility
 *          with the release and contains no API changes.
 *          When missing, it designates the final and complete
 *          development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
 return
```

```
@version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *         a specific release. D01 is the first development drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
      if ((new String("@version.DEVELOPER@")).length() == 0)
        return 0;
      else
        return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
         return 0;
  }
 }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

1.211 commons-lang3 3.4

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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InnerClassesAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Subroutine.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/FactoryHelper.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SyntaxError.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/framedump.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Cast.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassClassPath.java
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 /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/MethodCall.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CannotCompileException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformReadField.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeData.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewClass.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Callback.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/Modifier.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeTag.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Inner.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/FramePrinter.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/StubGenerator.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/ObjectNotFoundException.java
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 /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/TypeChecker.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtClass.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/SoftValueHashMap.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/NotFoundException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtField.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Opcode.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/Translator.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Pair.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Sample.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/MethodHandler.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtConstructor.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/Sample.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/DotClass.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/StringL.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewNestedClass.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Member.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/Proxy.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPool.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Executor.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteRef.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AttributeInfo.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/RuntimeSupport.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/FieldInfo.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/FieldAccess.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/BinExpr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SymbolTable.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Handler.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/BadBytecode.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Lex.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Webserver.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/Proxy.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNew.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InstructionPrinter.java
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/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Expr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ByteArrayClassPath.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtBehavior.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ExceptionTable.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/ClassMetaobject.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ProceedHandler.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/NewArray.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SourceFileAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/MapMaker.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformAccessArrayField.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Viewer.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotCreateException.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Parser.java

* /javassist-3-22-0-cr2-sources-4-jar/javassist/Loader.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Expr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPoolTail.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/ConstructorCall.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/ExprEditor.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AccessFlag.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtClassType.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LongVector.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformAfter.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/IntConst.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformBefore.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/JvstTypeChecker.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/LoaderClassPath.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Variable.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewMethod.java

* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTree.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPool.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformFieldAccess.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DuplicateMemberException.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformWriteField.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java
*
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/DoubleMemberValue.java
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1.215 javax-ws-rs-api 2.0

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1.216 go-yaml 2.4.0

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1.218 jakarta-ws-rs-api 2.1.5

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxrs-api

Third-party Content

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javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

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Mockito (2.16.0)

* Project: http://site.mockito.org
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jar/org/custommonkey/xmlunit/jaxp13/XMLUnitNamespaceContext2Jaxp13.java
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* /xmlunit-legacy-2-3-0-sources-1-jar/org/custommonkey/xmlunit/SimpleXpathEngine.java
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1.228 jetty-continuation 9.2.13.v20150730

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1.229 wiremock-standalone 2.5.1

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```

```
*/
// object is free to use the argument key to filter its
// for more details.
/**
* Sets metadata for `func`.
*
* **Note:** If this function becomes hot, i.e. is invoked a lot in a short
* period of time, it will trip its breaker and transition to an identity function
* to avoid garbage collection pauses in V8. See [V8 issue
2070](https://code.google.com/p/v8/issues/detail?id=2070)
* for more details.
*
* @private
* @param {Function} func The function to associate metadata with.
* @param {*} data The metadata.
* @returns {Function} Returns `func`.
*/
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* By Jeremy Dorn - https://github.com/jdorn/json-editor/
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*
* Date: 2015-08-12
*/

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* http://benalman.com/projects/jquery-bbq-plugin/
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jar/com/github/tomakehurst/wiremock/servlet/WireMockWebContextListener.java
* /wiremock-standalone-2-5-1-sources-1-jar/com/github/tomakehurst/wiremock/standalone/MappingsLoader.java
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/wiremock-standalone-2-5-1-sources-1-jar/com/github/tomakehurst/wiremock/client/HttpAdminClient.java
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jar/com/github/tomakehurst/wiremock/common/VeryShortIdGenerator.java
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jar/com/github/tomakehurst/wiremock/admin/tasks/ResetScenariosTask.java
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jar/com/github/tomakehurst/wiremock/matching/CustomMatcherDefinition.java
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* /wiremock-standalone-2-5-1-sources-1-jar/com/github/tomakehurst/wiremock/admin/tasks/ResetTask.java
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jar/com/github/tomakehurst/wiremock/admin/tasks/FindUnmatchedRequestsTask.java
* /wiremock-standalone-2-5-1-sources-1-jar/com/github/tomakehurst/wiremock/http/Body.java
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jar/com/github/tomakehurst/wiremock/servlet/NotImplementedContainer.java
* /wiremock-standalone-2-5-1-sources-1-
jar/com/github/tomakehurst/wiremock/matching/RequestMatcherExtension.java
* /wiremock-standalone-2-5-1-sources-1-
jar/com/github/tomakehurst/wiremock/verification/InMemoryRequestJournal.java
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4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return' \n
<h3 class="auth__title">Api key authorization</h3>\n <div
class="auth__description">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+' \n
\n \n name:\n
<span
class="key_auth__value">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+'\n \n \n <span
class="key_auth__label">in:\n <span
class="key_auth__value">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t["in"]:t,{name:"escape",hash:{},data:i}))?a:"")+'\n \n \n <span
class="key_auth__label">value:\n'+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(3,i,0),data:i}))?a:"")+" \n
\n \n"},useData:!0}),t.auth_button=e({compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){return"<a
class='authorize__btn'
href=\"#\">Authorize\n"},useData:!0}),t.auth_button_operation=e({1:function(e,t,n,r,i){return"

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authorize__btn_operation_login\n"},3:function(e,t,n,r,i){return"
authorize__btn_operation_logout\n"},5:function(e,t,n,r,i){var a;return'        <ul class="authorize-
scopes">\n'+(null!=(a=n.each.call(null!=t?t:{},null!=t?t.scopes:t,{name:"each",hash:{},fn:e.program(6,i,0),inverse:e
.noop,data:i}))?a:"")+"        </ul>\n"},6:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'
<li class="authorize__scope"
title="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.description:t,{name:"escape",hash:{},data:i}))?a:"")+'"
>'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.scope:t,{name:"escape",hash:{},data:i}))?a:"")+"</li>\n"},co
mpiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{};return'<div class="authorize__btn
authorize__btn_operation\n'+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.program(1,i,0),inv
erse:e.program(3,i,0),data:i}))?a:"")+'">\n'+(null!=(a=n["if"].call(o,null!=t?t.scopes:t,{name:"if",hash:{},fn:e.progra
m(5,i,0),inverse:e.noop,data:i}))?a:"")+"</div>\n"},useData:!0}),t.auth_view=e({1:function(e,t,n,r,i){return'
        <button type="button" class="auth__button auth_submit__button" data-sw-
translate>Authorize</button>\n'},3:function(e,t,n,r,i){return'        <button type="button" class="auth__button
auth_logout__button" data-sw-translate>Logout</button>\n'},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var
a,o=null!=t?t:{};return'<div class="auth_container">\n\n    <div class="auth_inner"></div>\n    <div
class="auth_submit">\n'+(null!=(a=n.unless.call(o,null!=t?t.isLogout:t,{name:"unless",hash:{},fn:e.program(1,i,0),i
nverse:e.noop,data:i}))?a:"")+(null!=(a=n["if"].call(o,null!=t?t.isAuthorized:t,{name:"if",hash:{},fn:e.program(3,i,0
),inverse:e.noop,data:i}))?a:"")+"    </div>\n\n</div>\n"},useData:!0}),t.basic_auth=e({1:function(e,t,n,r,i){return" -
authorized"},3:function(e,t,n,r,i){var a;return'
    <span
class="basic_auth__value">'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{},null!=t?t.usernam
e:t,{name:"escape",hash:{},data:i}))?a:"")+"</span>\n"},5:function(e,t,n,r,i){return'        <input required
placeholder="username" class="basic_auth__username auth_input" name="username"
type="text"/>\n'},7:function(e,t,n,r,i){return'        <div class="auth_label">\n            <span
class="basic_auth__label" data-sw-translate>password:</span>\n            <input required placeholder="password"
class="basic_auth__password auth_input" name="password" type="password"/></label>\n
</div>\n'},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{};return"<div
class='basic_auth_container'>\n    <h3 class=\"auth__title\">Basic
authentication"+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.noop,d
ata:i}))?a:"")+'</h3>\n    <form class="basic_input_container">\n        <div
class="auth__description">'+(null!=(a=(n.sanitize||t&&t.sanitize||n.helperMissing).call(o,null!=t?t.description:t,{na
me:"sanitize",hash:{},data:i}))?a:"")+'</div>\n
    <div class="auth_label">\n        <span class="basic_auth__label" data-sw-
translate>username:</span>\n'+(null!=(a=n["if"].call(o,null!=t?t.isLogout:t,{name:"if",hash:{},fn:e.program(3,i,0),i
nverse:e.program(5,i,0),data:i}))?a:"")+"
</div>\n"+(null!=(a=n.unless.call(o,null!=t?t.isLogout:t,{name:"unless",hash:{},fn:e.program(7,i,0),inverse:e.noop,
data:i}))?a:"")+"    </form>\n</div>\n"},useData:!0}),t.content_type=e({1:function(e,t,n,r,i){var a;return
null!=(a=n.each.call(null!=t?t:{},null!=t?t.produces:t,{name:"each",hash:{},fn:e.program(2,i,0),inverse:e.noop,data:
i}))?a:""},2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'\t<option
value="'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+'">'+(null!=(a=(n.s
anitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+"</option>\n"},4:function(e,t,n,r,i){return'
  <option value="application/json">application/json</option>\n'},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'<label data-sw-translate
for="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.contentTypeId:t,{name:"escape",hash:{},data:i}))?a:"")+
'">Response Content Type</label>\n<select name="contentType"
id="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.contentTypeId:t,{name:"escape",hash:{},data:i}))?a:"")+'
">\n'+(null!=(a=n["if"].call(o,null!=t?t.produces:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(4,i,0),d
ata:i}))?a:"")+"</select>\n"},useData:!0}),t.main=e({1:function(e,t,n,r,i){var
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a,o=null!=t?t:{},s=n.helperMissing;return'  <div
class="info_title">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=(a=null!=t?t.info:t)?a.title:a,{name:"sanitize"
,hash:{},data:i}))?a:"")+'</div>\n  <div class="info_description
markdown">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=(a=null!=t?t.info:t)?a.description:a,{name:"sanitiz
e",hash:{},data:i}))?a:"")+"</div>\n"+(null!=(a=n["if"].call(o,null!=t?t.externalDocs:t,{name:"if",hash:{},fn:e.progr
am(2,i,0),inverse:e.noop,data:i}))?a:"")+"
"+(null!=(a=n["if"].call(o,null!=(a=null!=t?t.info:t)?a.termsOfServiceUrl:a,{name:"if",hash:{},fn:e.program(4,i,0),in
verse:e.noop,data:i}))?a:"")+"\n
"+(null!=(a=n["if"].call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.name:a,{name:"if",hash:{},fn:e.program
(6,i,0),inverse:e.noop,data:i}))?a:"")+"\n
"+(null!=(a=n["if"].call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.url:a,{name:"if",hash:{},fn:e.program(8,
i,0),inverse:e.noop,data:i}))?a:"")+"\n
"+(null!=(a=n["if"].call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.email:a,{name:"if",hash:{},fn:e.program
(10,i,0),inverse:e.noop,data:i}))?a:"")+"\n
"+(null!=(a=n["if"].call(o,null!=(a=null!=t?t.info:t)?a.license:a,{name:"if",hash:{},fn:e.program(12,i,0),inverse:e.no
op,data:i}))?a:"")+"\n"},2:function(e,t,n,r,i){var
 a,o=null!=t?t:{},s=n.helperMissing;return"
<p>"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=(a=null!=t?t.externalDocs:t)?a.description:a,{name:"sanitiz
e",hash:{},data:i}))?a:"")+'</p>\n  <a
href="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=t?t.externalDocs:t)?a.url:a,{name:"escape",hash:{
},data:i}))?a:"")+'"
target="_blank">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=t?t.externalDocs:t)?a.url:a,{name:"esc
ape",hash:{},data:i}))?a:"")+"</a>\n"},4:function(e,t,n,r,i){var a;return'<div class="info_tos"><a target="_blank"
href="'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{},null!=(a=null!=t?t.info:t)?a.termsOfSer
viceUrl:a,{name:"escape",hash:{},data:i}))?a:"")+'" data-sw-translate>Terms of
service</a></div>'},6:function(e,t,n,r,i){var a;return"<div><div class='info_name' style=\"display: inline\" data-sw-
translate>Created by </div>
"+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{},null!=(a=null!=(a=null!=t?t.info:t)?a.contact:
a)?a.name:a,{name:"escape",hash:{},data:i}))?a:"")+"</div>"},8:function(e,t,n,r,i){var
 a,o=null!=t?t:{},s=n.helperMissing;return"<div class='info_url' data-sw-translate>See more at <a
href=\""+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.url:a,{name:"
escape",hash:{},data:i}))?a:"")+'">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a
.contact:a)?a.url:a,{name:"escape",hash:{},data:i}))?a:"")+"</a></div>"},10:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return'<div class=\'info_email\'><a target="_parent"
href="mailto:'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.contact:a)?a.email:a,
{name:"escape",hash:{},data:i}))?a:"")+"?subject="+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=t?t.i
nfo:t)?a.title:a,{name:"escape",hash:{},data:i}))?a:"")+'" data-sw-translate>Contact
 the developer</a></div>'},12:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"<div
class='info_license'><a target=\"_blank\"
href="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.license:a)?a.url:a,{name:"es
cape",hash:{},data:i}))?a:"")+'">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=(a=null!=(a=null!=t?t.info:t)?a.l
icense:a)?a.name:a,{name:"escape",hash:{},data:i}))?a:"")+"</a></div>"},14:function(e,t,n,r,i){var a;return'  ,
<span style="font-variant: small-caps" data-sw-translate>api version</span>:
'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{},null!=(a=null!=t?t.info:t)?a.version:a,{name:"
escape",hash:{},data:i}))?a:"")+"\n    "},16:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'    <span
style="float:right"><a target="_blank"
href="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.validatorUrl:t,{name:"escape",hash:{},data:i}))?a:"")+"
/debug?url="+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.url:t,{name:"escape",hash:{},data:i}))?a:"")+'"><
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img
 id="validator"
src="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.validatorUrl:t,{name:"escape",hash:{},data:i}))?a:"")+"?
url="+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.url:t,{name:"escape",hash:{},data:i}))?a:"")+'"></a>\n
</span>\n'},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{};return"<div class='info'
id='api_info'>\n"+(null!=(a=n["if"].call(o,null!=t?t.info:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.noop,data
:i}))?a:"")+"</div>\n<div class='container' id='resources_container'>\n  <div class='authorize-wrapper'></div>\n\n
<ul id='resources'></ul>\n\n  <div class=\"footer\">\n    <h4 style=\"color: #999\">[ <span style=\"font-variant:
small-caps\">base url</span>:
"+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(o,null!=t?t.basePath:t,{name:"escape",hash:{},data:i}))?a
:"")+"\n"+(null!=(a=n["if"].call(o,null!=(a=null!=t?t.info:t)?a.version:a,{name:"if",hash:{},fn:e.program(14,i,0),inve
rse:e.noop,data:i}))?a:"")+"]\n"+(null!=(a=n["if"].call(o,null!=t?t.validatorUrl:t,{name:"if",hash:{},fn:e.program(16,
i,0),inverse:e.noop,data:i}))?a:"")+"
    </h4>\n    </div>\n</div>\n"},useData:!0}),t.oauth2=e({1:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return'            <li>\n                <input class="oauth-scope" type="checkbox"
data-scope="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.scope:t,{name:"escape",hash:{},data:i}))?a:"")+"'
oauthtype="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.OAuthSchemeKey:t,{name:"escape",hash:{},data
:i}))?a:"")+'"/>\n
<label>'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.scope:t,{name:"escape",hash:{},data:i}))?a:"")+'</labe
l><br/>\n                <span class="api-scope-
desc">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.description:t,{name:"escape",hash:{},data:i}))?a:"")+"\
n"+(null!=(a=n["if"].call(o,null!=t?t.OAuthSchemeKey:t,{name:"if",hash:{},fn:e.program(2,i,0),inverse:e.noop,data
:i}))?a:"")+"
            </span>\n            </li>\n"},2:function(e,t,n,r,i){var a;return"
("+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{},null!=t?t.OAuthSchemeKey:t,{name:"escap
e",hash:{},data:i}))?a:"")+")\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return'<div>\n    <h3 class="auth__title">Select OAuth2.0 Scopes</h3>\n
<p>'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+'<
/p>\n    <p>Scopes are used to grant an application different levels of access to data on behalf of the end user. Each
API may declare one or more scopes.\n        <a href="#">Learn how to use</a>\n    </p>\n    <p><strong>
'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.appName:t,{name:"escape",hash:{},data:i}))?a:"")+"
</strong> API requires the following scopes.
 Select which ones you want to grant to Swagger UI.</p>\n    <p>Authorization URL:
"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.authorizationUrl:t,{name:"sanitize",hash:{},data:i}))?a:"")+
"</p>\n    <p>flow:
"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.flow:t,{name:"escape",hash:{},data:i}))?a:"")+'</p>\n    <ul
class="api-popup-
scopes">\n'+(null!=(a=n.each.call(o,null!=t?t.scopes:t,{name:"each",hash:{},fn:e.program(1,i,0),inverse:e.noop,data
:i}))?a:"")+"
</ul>\n</div>"},useData:!0}),t.operation=e({1:function(e,t,n,r,i){return"deprecated"},3:function(e,t,n,r,i){return"
    <h4><span data-sw-translate>Warning: Deprecated</span></h4>\n"},5:function(e,t,n,r,i){var a;return'
<h4><span data-sw-translate>Implementation Notes</span></h4>\n        <div
class="markdown">'+(null!=(a=(n.sanitize||t&&t.sanitize||n.helperMissing).call(null!=t?t:{},null!=t?t.description:t,{
name:"sanitize",hash:{},data:i}))?a:"")+"</div>\n"},7:function(e,t,n,r,i){return"
        <div class='authorize-wrapper authorize-wrapper_operation'></div>\n"},9:function(e,t,n,r,i){var
a,o=null!=t?t:{};return'        <div class="response-class">\n            <h4><span data-sw-translate>Response
Class</span> (<span data-sw-translate>Status</span>
'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(o,null!=t?t.successCode:t,{name:"escape",hash:{},data:i})
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)?a:"")+")</h4>\n
"+(null!=(a=n["if"].call(o,null!=t?t.successDescription:t,{name:"if",hash:{},fn:e.program(10,i,0),inverse:e.noop,data:i}))?a:"")+'\n \n
\n \n \n'},10:function(e,t,n,r,i){var a;return' '+(null!=(a=(n.sanitize||t&&t.sanitize||n.helperMissing).call(null!=t?t:{},null!=t?t.successDescription:t,{name:"sanitize",hash:{},data:i}))?a:"")+" "},12:function(e,t,n,r,i){var a;return' <h4 data-sw-translate>Headers</h4>\n
<table class="headers">\n <thead>\n <tr>\n <th style="width: 100px; max-width: 100px" data-sw-translate>Header</th>\n <th style="width: 310px; max-width: 310px" data-sw-translate>Description</th>\n <th style="width: 200px; max-width: 200px" data-sw-translate>Type</th>\n <th style="width: 320px; max-width: 320px" data-sw-translate>Other</th>\n </tr>\n
</thead>\n
<tbody>\n'+(null!=(a=n.each.call(null!=t?t:{},null!=t?t.headers:t,{name:"each",hash:{},fn:e.program(13,i,0),inverse:e.noop,data:i}))?a:"")+" </tbody>\n </table>\n"},13:function(e,t,n,r,i){var a,o,s=null!=t?t:{},l=n.helperMissing;return" <tr>\n
<td>"+e.escapeExpression((o=null!=(o=n.key||i&&i.key)?o:l,"function"==typeof o?o.call(s,{name:"key",hash:{},data:i}):o))+"</td>\n
<td>"+(null!=(a=(n.sanitize||t&&t.sanitize||l).call(s,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+"</td>\n
<td>"+(null!=(a=(n.escape||t&&t.escape||l).call(s,null!=t?t.type:t,{name:"escape",hash:{},data:i}))?a:"")+"</td>\n
<td>"+(null!=(a=(n.escape||t&&t.escape||l).call(s,null!=t?t.other:t,{name:"escape",hash:{},data:i}))?a:"")+"</td>\n
</tr>\n"},15:function(e,t,n,r,i){return' <h4 data-sw-translate>Parameters</h4>\n <table class=\'fullwidth parameters\'>\n <thead>\n <tr>\n <th style="width: 100px; max-width: 100px" data-sw-translate>Parameter</th>\n <th style="width: 310px; max-width: 310px" data-sw-translate>Value</th>\n <th style="width: 200px; max-width: 200px" data-sw-translate>Description</th>\n
<th style="width: 100px; max-width: 100px" data-sw-translate>Parameter Type</th>\n <th style="width: 220px; max-width: 230px" data-sw-translate>Data Type</th>\n </tr>\n </thead>\n
<tbody class="operation-params">\n\n </tbody>\n </table>\n'},17:function(e,t,n,r,i){return" \n <h4 data-sw-translate>Response Messages</h4>\n
<table class='fullwidth response-messages'>\n <thead>\n <tr>\n <th data-sw-translate>HTTP Status Code</th>\n <th data-sw-translate>Reason</th>\n <th data-sw-translate>Response Model</th>\n <th data-sw-translate>Headers</th>\n </tr>\n </thead>\n <tbody class=\"operation-status\">\n </tbody>\n
</table>\n"},19:function(e,t,n,r,i){return""},21:function(e,t,n,r,i){return" \n
<input class='submit' type='submit' value='Try it out!' data-sw-translate/>\n Hide Response\n <span class='response_throbber'
style='display:none'>\n \n"},23:function(e,t,n,r,i){return" <h4 data-sw-translate>Request Headers</h4>\n \n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing,l=e.escapeExpression;return" <ul class='operations' >\n <li
class='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.method:t,{name:"escape",hash:{},data:i}))?a:"")+" operation'
id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.parentId:t,{name:"escape",hash:{},data:i}))?a:"")+"_"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.nickname:t,{name:"escape",hash:{},data:i}))?a:"")+"'>\n \n <h3>\n \n <a
href='#!/'+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.encodedParentId:t,{name:"sanitize",hash:{},data:i}))+"/"+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.nickname:t,{name:"sanitize",hash:{},data:i}))+"\'

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class="toggleOperation">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.method:t,{name:"escape",hash:{},data:i}))?a:"")+"</a>\n          </span>\n          <span class='path'>\n          <a
href='#!/"+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.encodedParentId:t,{name:"sanitize",hash:{},data:i}))+"/"+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.nickname:t,{name:"sanitize",hash:{},data:i}))+"'
class=\"toggleOperation
"+(null!=(a=n["if"].call(o,null!=t?t.deprecated:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.noop,data:i}))?a:""
)+"'>'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.path:t,{name:"escape",hash:{},data:i}))?a:"")+"</a>\n
  </span>\n        </h3>\n        <ul class='options'>\n          <li>\n          <a
href='#!/"+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.encodedParentId:t,{name:"sanitize",hash:{},data:i}))+"/"+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.nickname:t,{name:"sanitize",hash:{},data:i}))+'\'
class="toggleOperation"><span
class="markdown">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.summary:t,{name:"escape",hash:{},data:i}))?a:"")+"</span></a>\n          </li>\n        </ul>\n      </div>\n      <div class='content'
id='"+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.encodedParentId:t,{name:"sanitize",hash:{},data:i}))+"_"+l((n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.nickname:t,{name:"sanitize",hash:{},data:i}))+"_content'
style='display:none'>\n"+(null!=(a=n["if"].call(o,null!=t?t.deprecated:t,{name:"if",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i}))?a:"")+(null!=(a=n["if"].call(o,null!=t?t.description:t,{name:"if",hash:{},fn:e.program(5,i,0),inverse:e.noop,data:i}))?a:"")+(null!=(a=n["if"].call(o,null!=t?t.security:t,{name:"if",hash:{},fn:e.program(7,i,0),inverse:e.noop,data:i}))?a:"")+(null!=(a=n["if"].call(o,null!=t?t.type:t,{name:"if",hash:{},fn:e.program(9,i,0),inverse:e.noop,data:i}))?a:"")+"\n"+(null!=(a=n["if"].call(o,null!=t?t.headers:t,{name:"if",hash:{},fn:e.program(12,i,0),inverse:e.noop,data:i}))?a:"")+"\n
        <form accept-charset='UTF-8' class='sandbox'>\n          <div
style='margin:0;padding:0;display:inline'></div>\n"+(null!=(a=n["if"].call(o,null!=t?t.parameters:t,{name:"if",hash:{},fn:e.program(15,i,0),inverse:e.noop,data:i}))?a:"")+(null!=(a=n["if"].call(o,null!=t?t.responseMessages:t,{name:"if",hash:{},fn:e.program(17,i,0),inverse:e.noop,data:i}))?a:"")+(null!=(a=n["if"].call(o,null!=t?t.isReadOnly:t,{name:"if",hash:{},fn:e.program(19,i,0),inverse:e.program(21,i,0),data:i}))?a:"")+"        </form>\n        <div
class='response' style='display:none'>\n          <h4 class='curl'>Curl</h4>\n          <div class='block curl'></div>\n
    <h4 data-sw-translate>Request URL</h4>\n          <div class='block
request_url'></div>\n"+(null!=(a=n["if"].call(o,null!=t?t.showRequestHeaders:t,{name:"if",hash:{},fn:e.program(23,i,0),inverse:e.noop,data:i}))?a:"")+"          <h4 data-sw-translate>Response Body</h4>\n
          <div class='block response_body'></div>\n          <h4 data-sw-translate>Response Code</h4>\n          <div
class='block response_code'></div>\n          <h4 data-sw-translate>Response Headers</h4>\n          <div
class='block response_headers'></div>\n        </div>\n      </div>\n    </li>\n
</ul>\n"},useData:!0}),t.param=e({1:function(e,t,n,r,i){var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t.isFile:t,{name:"if",hash:{},fn:e.program(2,i,0),inverse:e.program(4,i,0),data:i}))?a:""},2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"\t\t\t<input type="file"
name=\"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+"'
id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+'\'/>\n\t\t
\t<div class="parameter-content-type" />\n'},4:function(e,t,n,r,i){var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t["default"]:t,{name:"if",hash:{},fn:e.program(5,i,0),inverse:e.program(7,i,0),data:i}))?a:""},5:function(e,t,n,r,i){var
 a,o=null!=t?t:{},s=n.helperMissing;return"\t\t\t\t<div class=\"editor_holder\"></div>\n\t\t\t\t\t<textarea class='body-textarea'
name='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+"'
id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t["default"]:t,{name:"escape",hash:{},data:i}))?a:"")+'</textarea>\n
      <br />\n        <div class="parameter-content-type" />\n'},7:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return"\t\t\t\t<textarea class='body-textarea'
```

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name="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+"'
id="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+'\'></textarea>\n\t\t\t\t<div class="editor_holder"></div>\n\t\t\t\t<br
 />\n\t\t\t\t<div class="parameter-content-type" />\n'},9:function(e,t,n,r,i){var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t.isFile:t,{name:"if",hash:{},fn:e.program(2,i,0),inverse:e.program(10,i,0),
data:i}))?a:""},10:function(e,t,n,r,i){var a;return
null!=(a=(n.renderTextParam||t&&t.renderTextParam||n.helperMissing).call(null!=t?t:{},t,{name:"renderTextParam
",hash:{},fn:e.program(11,i,0),inverse:e.noop,data:i}))?a:""},11:function(e,t,n,r,i){return""},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"<td class='code'><label
for="'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+'">'+(n
ull!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+"</label></td>\n<
td>\n\n"+(null!=(a=n["if"].call(o,null!=t?t.isBody:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(9,i,0),
data:i}))?a:"")+'\n</td>\n<td
class="markdown">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},d
ata:i}))?a:"")+"</td>\n<td>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.paramType:t,{name:"escape",hash
:{},data:i}))?a:"")+'</td>\n<td>\n\t<span
 class="model-signature"></span>\n</td>\n'},useData:!0}),t.param_list=e({1:function(e,t,n,r,i){return"
required"},3:function(e,t,n,r,i){return' multiple="multiple"'},5:function(e,t,n,r,i){return" required
"},7:function(e,t,n,r,i){var a;return"      <option
"+(null!=(a=n.unless.call(null!=t?t:{},null!=t?t.hasDefault:t,{name:"unless",hash:{},fn:e.program(8,i,0),inverse:e.no
op,data:i}))?a:"")+" value=""></option>\n"},8:function(e,t,n,r,i){return'  selected="" '},10:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return"\n      <option
"+(null!=(a=n["if"].call(o,null!=t?t.isDefault:t,{name:"if",hash:{},fn:e.program(11,i,0),inverse:e.noop,data:i}))?a:"")
+"
value="'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.value:t,{name:"sanitize",hash:{},data:i}))?a:"")+"'>
 "+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.value:t,{name:"sanitize",hash:{},data:i}))?a:"")+"
"+(null!=(a=n["if"].call(o,null!=t?t.isDefault:t,{name:"if",hash:{},fn:e.program(13,i,0),inverse:e.noop,data:i}))?a:"")
+" </option>\n\n"},11:function(e,t,n,r,i){return' selected="" '},13:function(e,t,n,r,i){return" (default)
"},15:function(e,t,n,r,i){return"<strong>"},17:function(e,t,n,r,i){return"</strong>"},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var a,o,s=null!=t?t:{},l=n.helperMissing;return"<td
class='code"+(null!=(a=n["if"].call(s,null!=t?t.required:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.noop,data:
i}))?a:"")+'"><label
for="'+(null!=(a=(n.escape||t&&t.escape||l).call(s,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+'">'+(n
ull!=(a=(n.sanitize||t&&t.sanitize||l).call(s,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"</label></td>\
n<td>\n  <select
"+(null!=(a=(n.isArray||t&&t.isArray||l).call(s,t,{name:"isArray",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i})
)?a:"")+'
 class="parameter
'+(null!=(a=n["if"].call(s,null!=t?t.required:t,{name:"if",hash:{},fn:e.program(5,i,0),inverse:e.noop,data:i}))?a:"")+"'
name="'+(null!=(a=(n.sanitize||t&&t.sanitize||l).call(s,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"'
id="'+(null!=(a=(n.escape||t&&t.escape||l).call(s,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>\n\n'+
(null!=(a=n.unless.call(s,null!=t?t.required:t,{name:"unless",hash:{},fn:e.program(7,i,0),inverse:e.noop,data:i}))?a:"
")+"\n"+(null!=(a=n.each.call(s,null!=(a=null!=t?t.allowableValues:t)?a.descriptiveValues:a,{name:"each",hash:{},f
n:e.program(10,i,0),inverse:e.noop,data:i}))?a:"")+'\n  </select>\n</td>\n<td
class="markdown">'+(null!=(a=n["if"].call(s,null!=t?t.required:t,{name:"if",hash:{},fn:e.program(15,i,0),inverse:e.
noop,data:i}))?a:"")+(null!=(o=null!=(o=n.description||(null!=t?t.description:t))?o:l,a="function"==typeof
o?o.call(s,{name:"description",hash:{},data:i}):o)?a:"")+(null!=(a=n["if"].call(s,null!=t?t.required:t,{name:"if",hash
:{},fn:e.program(17,i,0),inverse:e.noop,data:i}))?a:"")+"</td>\n<td>"+(null!=(a=(n.escape||t&&t.escape||l).call(s,nul
```

```
l!=t?t.paramType:t,{name:"escape",hash:{},data:i}))?a:"")+'</td>\n<td><span
 class="model-signature"></span></td>\n'},useData:!0}),t.param_readonly=e({1:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return"        <textarea class='body-textarea' readonly='readonly'
name='"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"'
id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>"+(n
ull!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t["default"]:t,{name:"sanitize",hash:{},data:i}))?a:"")+'</textarea
>\n        <div class="parameter-content-type" />\n'},3:function(e,t,n,r,i){var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t["default"]:t,{name:"if",hash:{},fn:e.program(4,i,0),inverse:e.program(6,i,
0),data:i}))?a:""},4:function(e,t,n,r,i){var
 a;return"
"+(null!=(a=(n.sanitize||t&&t.sanitize||n.helperMissing).call(null!=t?t:{},null!=t?t["default"]:t,{name:"sanitize",hash
:{},data:i}))?a:"")+"\n"},6:function(e,t,n,r,i){return"            (empty)\n"},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"<td class='code'><label
for='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>"+(n
ull!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"</label></td>\
n<td>\n"+(null!=(a=n["if"].call(o,null!=t?t.isBody:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(3,i,0),
data:i}))?a:"")+'</td>\n<td
class="markdown">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},d
ata:i}))?a:"")+"</td>\n<td>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.paramType:t,{name:"escape",hash
:{},data:i}))?a:"")+'</td>\n<td><span
 class="model-signature"></span></td>\n'},useData:!0}),t.param_readonly_required=e({1:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return"        <textarea class='body-textarea' readonly='readonly'
placeholder='(required)'
name='"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"'
id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>"+(n
ull!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t["default"]:t,{name:"sanitize",hash:{},data:i}))?a:"")+"</textarea
>\n"},3:function(e,t,n,r,i){var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t["default"]:t,{name:"if",hash:{},fn:e.program(4,i,0),inverse:e.program(6,i,
0),data:i}))?a:""},4:function(e,t,n,r,i){var a;return"
"+(null!=(a=(n.sanitize||t&&t.sanitize||n.helperMissing).call(null!=t?t:{},null!=t?t["default"]:t,{name:"sanitize",hash
:{},data:i}))?a:"")+"\n"},6:function(e,t,n,r,i){
return"
            (empty)\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var
a,o=null!=t?t:{},s=n.helperMissing;return"<td class='code required'><label
for='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>"+(n
ull!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"</label></td>\
n<td>\n"+(null!=(a=n["if"].call(o,null!=t?t.isBody:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(3,i,0),
data:i}))?a:"")+'</td>\n<td
class="markdown">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},d
ata:i}))?a:"")+"</td>\n<td>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.paramType:t,{name:"escape",hash
:{},data:i}))?a:"")+'</td>\n<td><span class="model-
signature"></span></td>\n'},useData:!0}),t.param_required=e({1:function(e,t,n,r,i){var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t.isFile:t,{name:"if",hash:{},fn:e.program(2,i,0),inverse:e.program(4,i,0),da
ta:i}))?a:""},2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return'\t\t\t<input type="file"
name=\"'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+"'
id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'/>\n"},
4:function(e,t,n,r,i){var a;return
null!=(a=n["if"].call(null!=t?t:{},null!=t?t["default"]:t,{name:"if",hash:{},fn:e.program(5,i,0),inverse:e.program(7,i,
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0),data:i}))?a:""},5:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"\t\t\t\t<div class=\"editor_holder\"> \n\t\t\t\t<textarea class='body-textarea required' placeholder='(required)' name='"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"' id=\""+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t["default"]:t,{name:"sanitize",hash:{},data:i}))?a:"")+'</textarea>\n

\n \n'},7:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"\t\t\t\t<textarea class='body-textarea required' placeholder='(required)' name='"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"' id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+'\'></textarea>\n\t\t\t\t \n\t\t\t\t
\n\t\t\t\t \n'},9:function(e,t,n,r,i){var a;return null!=(a=n["if"].call(null!=t?t:{},null!=t?t.isFile:t,{name:"if",hash:{},fn:e.program(10,i,0),inverse:e.program(12,i,0),data:i}))?a:""},10:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"\t\t\t<input class='parameter' class='required' type='file' name='"+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"' id='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'/>\n"},12:function(e,t,n,r,i){var a;return null!=(a=(n.renderTextParam||t&&t.renderTextParam||n.helperMissing).call(null!=t?t:{},t,{name:"renderTextParam",hash:{},fn:e.program(13,i,0),inverse:e.noop,data:i}))?a:""},13:function(e,t,n,r,i){return""},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"<td class='code required'><label for='"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.valueId:t,{name:"escape",hash:{},data:i}))?a:"")+"'>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.name:t,{name:"escape",hash:{},data:i}))?a:"")+"</label></td>\n<td>\n"+(null!=(a=n["if"].call(o,null!=t?t.isBody:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(9,i,0),data:i}))?a:"")+'</td>\n<td>\n\t'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+"\n</td>\n<td>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.paramType:t,{name:"escape",hash:{},data:i}))?a:"")+'</td>\n<td></td>\n'},useData:!0}),t.parameter_content_type=e({1:function(e,t,n,r,i){var a;return null!=(a=n.each.call(null!=t?t:{},null!=t?t.consumes:t,{name:"each",hash:{},fn:e.program(2,i,0),inverse:e.noop,data:i}))?a:""},2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return' <option value="'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+'">'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+"</option>\n"},4:function(e,t,n,r,i){return'<option value="application/json">application/json</option>\n'},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o,s=null!=t?t:{},l=n.helperMissing;return'<label for="'+e.escapeExpression((o=null!=(o=n.parameterContentTypeId||(null!=t?t.parameterContentTypeId:t))?o:l,"function"==typeof o?o.call(s,{name:"parameterContentTypeId",hash:{},data:i}):o))+'" data-sw-translate>Parameter content type:</label>\n<select name="parameterContentType" id="'+(null!=(a=(n.sanitize||t&&t.sanitize||l).call(s,null!=t?t.parameterContentTypeId:t,{name:"sanitize",hash:{},data:i}))?a:"")+'">\n'+(null!=(a=n["if"].call(s,null!=t?t.consumes:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(4,i,0),data:i}))?a:"")+"</select>\n"},useData:!0}),t.popup=e({compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a;return' \n '+e.escapeExpression((a=null!=(a=n.title||(null!=t?t.title:t))?a:n.helperMissing,"function"==typeof a?a.call(null!=t?t:{},{name:"title",hash:{},data:i}):a))+' \n \n \n \n <button class="api-popup-cancel api-button gray" type="button">Cancel</button>\n \n \n '},useData:!0}),t.resource=e({1:function(e,t,n,r,i){return" : "},3:function(e,t,n,r,i){var a;return"

\n <a
href="'+(null!=(a=(n.sanitize||t&&t.sanitize||n.helperMissing).call(null!=t?t:{},null!=t?t.url:t,{name:"sanitize",hash:
{},data:i}))?a:"")+'" data-sw-translate>Raw\n \n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var
a,o,s,l=null!=t?t:{},u=n.helperMissing,c=" \n <h2>\n <a
href='#!/"+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+'\'
class="toggleEndpointList" data-
id="'+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+'">'+(null!
=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.name:t,{name:"sanitize",hash:{},data:i}))?a:"")+"
";return
o=null!=(o=n.summary||(null!=t?t.summary:t))?o:u,s={name:"summary",hash:{},fn:e.program(1,i,0),inverse:e.noop,
data:i},a="function"==typeof
o?o.call(l,s):o,n.summary||(a=n.blockHelperMissing.call(t,a,s)),null!=a&&(c+=a),c+(null!=(a=(n.sanitize||t&&t.sanit
ize||u).call(l,null!=t?t.summary:t,{name:"sanitize",hash:{},data:i}))?a:"")+"\n </h2>\n <ul class='options'>\n
\n <a
href='#!/"+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+"'
id='endpointListTogger_"+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i
}))?a:"")+'\' class="toggleEndpointList" data-
id="'+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+'" data-sw-
translate>Show/Hide\n \n \n <a href=\'#\' class="collapseResource" data-
id="'+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+'"
data-sw-translate>\n List Operations\n \n \n \n <a href=\'#\' class="expandResource"
data-id="'+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+'"
data-sw-translate>\n Expand Operations\n \n
\n'+(null!=(a=n["if"].call(l,null!=t?t.url:t,{name:"if",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i}))?a:"")+
" \n \n<ul class='endpoints'
id="'+(null!=(a=(n.sanitize||t&&t.sanitize||u).call(l,null!=t?t.id:t,{name:"sanitize",hash:{},data:i}))?a:"")+"_endpoint
_list' style='display:none'>\n\n
\n"},useData:!0}),t.response_content_type=e({1:function(e,t,n,r,i){var a;return
null!=(a=n.each.call(null!=t?t:{},null!=t?t.produces:t,{name:"each",hash:{},fn:e.program(2,i,0),inverse:e.noop,data:
i}))?a:""},2:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return' <option
value="'+(null!=(a=(n.sanitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+'">'+(null!=(a=(n.s
anitize||t&&t.sanitize||s).call(o,t,{name:"sanitize",hash:{},data:i}))?a:"")+"</option>\n"},4:function(e,t,n,r,i){return'
<option value="application/json">application/json</option>\n'},compiler:[7,">=
4.0.0"],main:function(e,t,n,r,i){var
a,o,s=null!=t?t:{},l=n.helperMissing,u="function",c=e.escapeExpression;return'<label data-sw-translate
for="'+c((o=null!=(o=n.responseContentTypeId||(null!=t?t.responseContentTypeId:t))?o:l,typeof
o===u?o.call(s,{name:"responseContentTypeId",hash:{},data:i}):o))+'">Response Content Type</label>\n<select
name="responseContentType"
id="'+c((o=null!=(o=n.responseContentTypeId||(null!=t?t.responseContentTypeId:t))?o:l,typeof
o===u?o.call(s,{name:"responseContentTypeId",hash:{},data:i}):o))+'">\n'+(null!=(a=n["if"].call(s,null!=t?t.produc
es:t,{name:"if",hash:{},fn:e.program(1,i,0),inverse:e.program(4,i,0),data:i}))?a:"")+"</select>\n"},useData:!0}),t.sig
nature=e({1:function(e,t,n,r,i){var a,o=null!=t?t:{};return'\n \n\n<ul
class="signature-nav">\n Model
\n <a
class="snippet-link" href="#" data-sw-translate>Example Value
\n
\n \n\n<div class="signature-
container">\n \n
'+e.escapeExpression((n.sanitize||t&&t.sanitize||n.helperMissing).call(o,null!=t?t.signature:t,{name:"sanitize",hash:{
},data:i}))+'\n \n\n <div
class="snippet">\n'+(null!=(a=n["if"].call(o,null!=t?t.sampleJSON:t,{name:"if",hash:{},fn:e.program(2,i,0),inverse:
e.noop,data:i}))?a:"")+(null!=(a=n["if"].call(o,null!=t?t.sampleXML:t,{name:"if",hash:{},fn:e.program(5,i,0),invers

e:e.noop,data:i}))?a:"")+" \n \n"},2:function(e,t,n,r,i){var a,o=null!=t?t:{};return'   \n
<pre><code>'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(o,null!=t?t.sampleJSON:t,{name:"escape",hash:{},data:i}))?a:"")+"</code></pre>\n
"+(null!=(a=n["if"].call(o,null!=t?t.isParam:t,{name:"if",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i}))?a:"")+"\n
    \n"},3:function(e,t,n,r,i){return'<small class="notice" data-sw-translate></small>'},5:function(e,t,n,r,i){var a,o=null!=t?t:{};return'   \n
<pre><code>'+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(o,null!=t?t.sampleXML:t,{name:"escape",hash:{},data:i}))?a:"")+"</code></pre>\n
"+(null!=(a=n["if"].call(o,null!=t?t.isParam:t,{name:"if",hash:{},fn:e.program(3,i,0),inverse:e.noop,data:i}))?a:"")+"\n   \n"},7:function(e,t,n,r,i){var a;return"
"+(null!=(a=(n.escape||t&&t.escape||n.helperMissing).call(null!=t?t:{},null!=t?t.signature:t,{name:"escape",hash:{},data:i}))?a:"")+"\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a;return
null!=(a=(n.ifCond||t&&t.ifCond||n.helperMissing).call(null!=t?t:{},null!=t?t.sampleJSON:t,"||",null!=t?t.sampleXML:t,{name:"ifCond",hash:{},fn:e.program(1,i,0),inverse:e.program(7,i,0),data:i}))?a:""},useData:!0}),t.status_code=e({1:function(e,t,n,r,i){var
 a,o,s=null!=t?t:{},l=n.helperMissing;return"   <tr>\n
<td>"+e.escapeExpression((o=null!=(o=n.key||i&&i.key)?o:l,"function"==typeof o?o.call(s,{name:"key",hash:{},data:i}):o))+"</td>\n
<td>"+(null!=(a=(n.sanitize||t&&t.sanitize||l).call(s,null!=t?t.description:t,{name:"sanitize",hash:{},data:i}))?a:"")+"</td>\n
<td>"+(null!=(a=(n.escape||t&&t.escape||l).call(s,null!=t?t.type:t,{name:"escape",hash:{},data:i}))?a:"")+"</td>\n
</tr>\n"},compiler:[7,">= 4.0.0"],main:function(e,t,n,r,i){var a,o=null!=t?t:{},s=n.helperMissing;return"<td width='15%'
class='code'>"+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.code:t,{name:"escape",hash:{},data:i}))?a:"")+'</td>\n<td
class="markdown">'+(null!=(a=(n.escape||t&&t.escape||s).call(o,null!=t?t.message:t,{name:"escape",hash:{},data:i}))?a:"")+'</td>\n<td width=\'50%\'></td>\n<td class="headers">\n <table>\n
<tbody>\n'+(null!=(a=n.each.call(o,null!=t?t.headers:t,{name:"each",hash:{},fn:e.program(1,i,0),inverse:e.noop,data:i}))?a:"")+"
   </tbody>\n </table>\n</td>"},useData:!0})},$(function(){$.fn.vAlign=function(){return
this.each(function(){var e=$(this).height(),t=$(this).parent().height(),n=(t-e)/2;$(this).css("margin-top",n)})},$.fn.stretchFormtasticInputWidthToParent=function(){return this.each(function(){var
e=$(this).closest("form").innerWidth(),t=parseInt($(this).closest("form").css("padding-left"),10)+parseInt($(this).closest("form").css("padding-right"),10),n=parseInt($(this).css("padding-left"),10)+parseInt($(this).css("padding-right"),10);$(this).css("width",e-t-n)})},$("form.formtastic li.string input,
form.formtastic textarea").stretchFormtasticInputWidthToParent(),$("ul.downplayed li div.content
p").vAlign(),$("form.sandbox").submit(function(){var e=!0;return
$(this).find("input.required").each(function(){$(this).removeClass("error"),""===$(this).val()&&($(this).addClass("error"),$(this).wiggle(),e=!1)}),e})}),Function.prototype.bind&&console&&"object"==typeof
console.log&&["log","info","warn","error","assert","dir","clear","profile","profileEnd"].forEach(function(e){console[e]=this.bind(console[e],console)},Function.prototype.call),window.Docs={shebang:function(){var
e=$.param.fragment().split("/");switch(e.shift(),e.length){case 1:if(e[0].length>0){var
t="resource_"+e[0];Docs.expandEndpointListForResource(e[0]),$("#"+t).slideto({highlight:!1})}break;case
2:Docs.expandEndpointListForResource(e[0]),$("#"+t).slideto({highlight:!1});var
n=e.join("_"),r=n+"_content";Docs.expandOperation($("#"+r)),$("#"+n).slideto({highlight:!1})}},toggleEndpointListForResource:function(e){var t=$("li#resource_"+Docs.escapeResourceName(e)+"

ul.endpoints");t.is(":visible")?($.bbq.pushState("#/",2),Docs.collapseEndpointListForResource(e)):($.bbq.pushState("#/"+e,2),Docs.expandEndpointListForResource(e))},expandEndpointListForResource:function(e){var e=Docs.escapeResourceName(e);if(""==e)return void $(".resource ul.endpoints").slideDown();$("li#resource_"+e).addClass("active");var t=$("li#resource_"+e+" ul.endpoints");t.slideDown()},collapseEndpointListForResource:function(e){var e=Docs.escapeResourceName(e);if(""==e)return void $(".resource ul.endpoints").slideUp();$("li#resource_"+e).removeClass("active");var t=$("li#resource_"+e+" ul.endpoints");t.slideUp()},expandOperationsForResource:function(e){return Docs.expandEndpointListForResource(e),""==e?void $(".resource ul.endpoints li.operation div.content").slideDown():void $("li#resource_"+Docs.escapeResourceName(e)+" li.operation div.content").each(function(){Docs.expandOperation($(this))})},collapseOperationsForResource:function(e){return Docs.expandEndpointListForResource(e),""==e?void $(".resource ul.endpoints li.operation div.content").slideUp():void $("li#resource_"+Docs.escapeResourceName(e)+" li.operation div.content").each(function(){Docs.collapseOperation($(this))})},escapeResourceName:function(e){return e.replace(/[!"#$%&'()*+,.\/:;<=>?@\[\\\]\^`{|}~]/g,"\\$&")},expandOperation:function(e){e.slideDown()},collapseOperation:function(e){e.slideUp()}},function(e,t){"use strict";"function"==typeof define&&define.amd?define(t):"object"==typeof exports?module.exports=t():e.returnExports=t()}(this,function(){var e,t,n=Array,r=n.prototype,i=Object,a=i.prototype,o=Function,s=o.prototype,l=String,u=l.prototype,c=Number,p=c.prototype,h=r.slice,f=r.splice,d=r.push,m=r.unshift,g=r.concat,y=r.join,v=s.call,b=s.apply,w=Math.max,_=Math.min,x=a.toString,A="function"==typeof Symbol&&"symbol"==typeof Symbol.toStringTag,S=Function.prototype.toString,j=/^\s*class /,E=function(e){try{var t=S.call(e),n=t.replace(/\/\/.*\n/g,""),r=n.replace(/\/*[.\s\S]**\//g,""),i=r.replace(/\n/gm," ").replace(/ {2}/g," ");return j.test(i)}catch(a){return!1}},O=function(e){try{return!E(e)&&(S.call(e),!0)}catch(t){return!1}},k="[object Function]",T="[object GeneratorFunction]",e=function(e){if(!e)return!1;if("function"!=typeof e&&"object"!=typeof e)return!1;if(A)return O(e);if(E(e))return!1;var t=x.call(e);return t===k||t===T},C=RegExp.prototype.exec,I=function(e){try{return C.call(e),!0}catch(t){return!1}},D="[object RegExp]";t=function(e){return"object"==typeof e&&(A?I(e):x.call(e)===D)};var L,M=String.prototype.valueOf,R=function(e){try{return M.call(e),!0}catch(t){return!1}},U="[object String]";L=function(e){return"string"==typeof e||"object"==typeof e&&(A?R(e):x.call(e)===U)};var P=i.defineProperty&&function(){try{var e={};i.defineProperty(e,"x",{enumerable:!1,value:e});for(var t in e)return!1;return e.x===e}catch(n){return!1}}(),q=function(e){var t;return t=P?function(e,t,n,r){!r&&t in e||i.defineProperty(e,t,{configurable:!0,enumerable:!1,writable:!0,value:n})}:function(e,t,n,r){!r&&t in e||(e[t]=n)},function(n,r,i){for(var a in r)e.call(r,a)&&t(n,a,r[a],i)}}(a.hasOwnProperty),B=function(e){var t=typeof e;return null===e||"object"!==t&&"function"!==t},N=c.isNaN||function(e){return e!==e},z={ToInteger:function(e){var t=+e;return N(t)?t=0:0!==t&&t!==1/0&&t!==-(1/0)&&(t=(t>0||-1)*Math.floor(Math.abs(t))),t},ToPrimitive:function(t){var n,r,i;if(B(t))return t;if(r=t.valueOf,e(r)&&(n=r.call(t),B(n)))return n;if(i=t.toString,e(i)&&(n=i.call(t),B(n)))return n;throw new TypeError},ToObject:function(e){if(null==e)throw new TypeError("can't convert "+e+" to object");return i(e)},ToUint32:function(e){return e>>>0}},$=function(){};q(s,{bind:function(t){var n=this;if(!e(n))throw new TypeError("Function.prototype.bind called on incompatible "+n);for(var r,a=h.call(arguments,1),s=function(){if(this instanceof r){var e=b.call(n,this,g.call(a,h.call(arguments)));return i(e)===e?e:this}return b.call(n,t,g.call(a,h.call(arguments)))},l=w(0,n.length-a.length),u=[],c=0;c<l;c++)d.call(u,"$"+c);return r=o("binder","return function ("+y.call(u,",")+"){ return binder.apply(this, arguments);
}")(s),n.prototype&&($.prototype=n.prototype,r.prototype=new $,$.prototype=null),r}});var F=v.bind(a.hasOwnProperty),V=v.bind(a.toString),H=v.bind(h),Y=b.bind(h),J=v.bind(u.slice),W=v.bind(u.split),Q=v.bind(u.indexOf),G=v.bind(d),K=v.bind(a.propertyIsEnumerable),X=v.bind(r.sort),Z=n.isArray||function(e){return

"[object
Array]"===V(e)},ee=1!==[].unshift(0);q(r,{unshift:function(){return
m.apply(this,arguments),this.length}},ee),q(n,{isArray:Z});var te=i("a"),ne="a"!==te[0]||!(0 in
te),re=function(e){var t=!0,n=!0,r=!1;if(e)try{e.call("foo",function(e,n,r){"object"!=typeof
r&&(t=!1)}),e.call([1],function(){"use strict";n="string"==typeof
this},"x")}catch(i){r=!0}return!!e&&!r&&t&&n};q(r,{forEach:function(t){var
n,r=z.ToObject(this),i=ne&&L(this)?W(this,""):r,a=-
1,o=z.ToUint32(i.length);if(arguments.length>1&&(n=arguments[1]),!e(t))throw new
TypeError("Array.prototype.forEach callback must be a function");for(;++a<o;)a in i&&("undefined"==typeof
n?t(i[a],a,r):t.call(n,i[a],a,r))}},!re(r.forEach)),q(r,{map:function(t){var
r,i=z.ToObject(this),a=ne&&L(this)?W(this,""):i,o=z.ToUint32(a.length),s=n(o);if(arguments.length>1&&(r=argum
ents[1]),!e(t))throw
new TypeError("Array.prototype.map callback must be a function");for(var l=0;l<o;l++)l in
a&&("undefined"==typeof r?s[l]=t(a[l],l,i):s[l]=t.call(r,a[l],l,i));return s}},!re(r.map)),q(r,{filter:function(t){var
n,r,i=z.ToObject(this),a=ne&&L(this)?W(this,""):i,o=z.ToUint32(a.length),s=[];if(arguments.length>1&&(r=argum
ents[1]),!e(t))throw new TypeError("Array.prototype.filter callback must be a function");for(var l=0;l<o;l++)l in
a&&(n=a[l],("undefined"==typeof r?t(n,l,i):t.call(r,n,l,i))&&G(s,n));return
s}},!re(r.filter)),q(r,{every:function(t){var
n,r=z.ToObject(this),i=ne&&L(this)?W(this,""):r,a=z.ToUint32(i.length);if(arguments.length>1&&(n=arguments[1]
),!e(t))throw new TypeError("Array.prototype.every callback must be a function");for(var o=0;o<a;o++)if(o in
i&&!("undefined"==typeof n?t(i[o],o,r):t.call(n,i[o],o,r)))return!1;return!0}},!re(r.every)),q(r,{some:function(t){var
n,r=z.ToObject(this),i=ne&&L(this)?W(this,""):r,a=z.ToUint32(i.length);if(arguments.length>1&&(n=arguments[1]
),!e(t))throw
new TypeError("Array.prototype.some callback must be a function");for(var o=0;o<a;o++)if(o in
i&&("undefined"==typeof n?t(i[o],o,r):t.call(n,i[o],o,r)))return!0;return!1}},!re(r.some));var
ie=!1;r.reduce&&(ie="object"==typeof r.reduce.call("es5",function(e,t,n,r){return r})),q(r,{reduce:function(t){var
n=z.ToObject(this),r=ne&&L(this)?W(this,""):n,i=z.ToUint32(r.length);if(!e(t))throw new
TypeError("Array.prototype.reduce callback must be a function");if(0===i&&1===arguments.length)throw new
TypeError("reduce of empty array with no initial value");var a,o=0;if(arguments.length>=2)a=arguments[1];else
for(;;){if(o in r){a=r[o++];break}if(++o>=i)throw new TypeError("reduce of empty array with no initial
value")}for(;o<i;o++)o in r&&(a=t(a,r[o],o,n));return a}},!ie);var ae=!1;r.reduceRight&&(ae="object"==typeof
r.reduceRight.call("es5",function(e,t,n,r){return r})),q(r,{reduceRight:function(t){var
n=z.ToObject(this),r=ne&&L(this)?W(this,""):n,i=z.ToUint32(r.length);if(!e(t))throw
new TypeError("Array.prototype.reduceRight callback must be a
function");if(0===i&&1===arguments.length)throw new TypeError("reduceRight of empty array with no initial
value");var a,o=i-1;if(arguments.length>=2)a=arguments[1];else for(;;){if(o in r){a=r[o--];break}if(--o<0)throw new
TypeError("reduceRight of empty array with no initial value")}if(o<0)return a;do o in r&&(a=t(a,r[o],o,n));while(o-
-);return a}},!ae);var oe=r.indexOf&&[0,1].indexOf(1,2)!==-1;q(r,{indexOf:function(e){var
t=ne&&L(this)?W(this,""):z.ToObject(this),n=z.ToUint32(t.length);if(0===n)return-1;var
r=0;for(arguments.length>1&&(r=z.ToInteger(arguments[1])),r=r>=0?r:w(0,n+r);r<n;r++)if(r in
t&&t[r]===e)return r;return-1}},oe);var se=r.lastIndexOf&&[0,1].lastIndexOf(0,-3)!==-
1;q(r,{lastIndexOf:function(e){var
t=ne&&L(this)?W(this,""):z.ToObject(this),n=z.ToUint32(t.length);if(0===n)return-1;var r=n-
1;for(arguments.length>1&&(r=_(r,z.ToInteger(arguments[1]))),r=r>=0?r:n-Math.abs(r);r>=0;r--)if(r
in t&&e===t[r])return r;return-1}},se);var le=function(){var e=[1,2],t=e.splice();return
2===e.length&&Z(t)&&0===t.length}();q(r,{splice:function(e,t){return
0===arguments.length?[]:f.apply(this,arguments)}},!le);var ue=function(){var e={};return
r.splice.call(e,0,0,1),1===e.length}();q(r,{splice:function(e,t){if(0===arguments.length)return[];var

n=arguments;return this.length=w(z.ToInteger(this.length),0),arguments.length>0&&"number"!=typeof t&&(n=H(arguments),n.length<2?G(n,this.length-e):n[1]=z.ToInteger(t)),f.apply(this,n)}},!ue);var ce=function(){var e=new n(1e5);return e[8]="x",e.splice(1,1),7===e.indexOf("x")}(),pe=function(){var e=256,t=[];return t[e]="a",t.splice(e+1,0,"b"),"a"===t[e]}();q(r,{splice:function(e,t){for(var n,r=z.ToObject(this),i=[],a=z.ToUint32(r.length),o=z.ToInteger(e),s=o<0?w(a+o,0):_(o,a),u=_(w(z.ToInteger(t),0),a-s),c=0;c<u;)n=l(s+c),F(r,n)&&(i[c]=r[n]),c+=1;var p,h=H(arguments,2),f=h.length;if(f<u){c=s;for(var d=a-u;c<d;)n=l(c+u),p=l(c+f),F(r,n)?r[p]=r[n]:delete r[p],c+=1;c=a;for(var m=a-u+f;c>m;)delete r[c-1],c-=1}else if(f>u)for(c=a-u;c>s;)n=l(c+u-1),p=l(c+f-1),F(r,n)?r[p]=r[n]:delete r[p],c-=1;c=s;for(var g=0;g<h.length;++g)r[c]=h[g],c+=1;return r.length=a-u+f,i}},!ce||!pe);var he,fe=r.join;try{he="1,2,3"!==Array.prototype.join.call("123",",")}catch(de){he=!0}he&&q(r,{join:function(e){var t="undefined"==typeof e?",":e;return fe.call(L(this)?W(this,""):this,t)}},he);var me="1,2"!==[1,2].join(void 0);me&&q(r,{join:function(e){var t="undefined"==typeof e?",":e;return fe.call(this,t)}},me);var ge=function(e){for(var t=z.ToObject(this),n=z.ToUint32(t.length),r=0;r<arguments.length;)t[n+r]=arguments[r],r+=1;return t.length=n+r,n+r},ye=function(){var e={},t=Array.prototype.push.call(e,void 0);return 1!==t||1!==e.length||"undefined"!=typeof e[0]||!F(e,0)}();q(r,{push:function(e){return Z(this)?d.apply(this,arguments):ge.apply(this,arguments)}},ye);var ve=function(){var e=[],t=e.push(void 0);return 1!==t||1!==e.length||"undefined"!=typeof e[0]||!F(e,0)}();q(r,{push:ge},ve),q(r,{slice:function(e,t){var n=L(this)?W(this,""):this;return Y(n,arguments)}},ne);var be=function(){try{return[1,2].sort(null),[1,2].sort({}),!0}catch(e){}return!1}(),we=function(){try{return[1,2].sort(/a/),!1}catch(e){}return!0}(),_e=function(){try{return[1,2].sort(void 0),!0}catch(e){}return!1}();q(r,{sort:function(t){if("undefined"==typeof t)return X(this);if(!e(t))throw new TypeError("Array.prototype.sort callback must be a function");return X(this,t)}},be||!_e||!we);var xe=!K({toString:null},"toString"),Ae=K(function(){},"prototype"),Se=!F("x","0"),je=function(e){var t=e.constructor;return t&&t.prototype===e},Ee={$window:!0,$console:!0,$parent:!0,$self:!0,$frame:!0,$frames:!0,$frameElement:!0,$webkitIndexedDB:!0,$webkitStorageInfo:!0,$external:!0},Oe=function(){if("undefined"==typeof window)return!1;for(var e in window)try{!Ee["$"+e]&&F(window,e)&&null!==window[e]&&"object"==typeof window[e]&&je(window[e])}catch(t){return!0}return!1}(),ke=function(e){if("undefined"==typeof window||!Oe)return je(e);try{return je(e)}catch(t){return!1}},Te=["toString","toLocaleString","valueOf","hasOwnProperty","isPrototypeOf","propertyIsEnumerable","constructor"],Ce=Te.length,Ie=function(e){return"[object Arguments]"===V(e)},De=function(t){return null!==t&&"object"==typeof t&&"number"==typeof t.length&&t.length>=0&&!Z(t)&&e(t.callee)},Le=Ie(arguments)?Ie:De;q(i,{keys:function(t){var n=e(t),r=Le(t),i=null!==t&&"object"==typeof t,a=i&&L(t);if(!i&&!n&&!r)throw new TypeError("Object.keys called on a non-object");var o=[],s=Ae&&n;if(a&&Se||r)for(var u=0;u<t.length;++u)G(o,l(u));if(!r)for(var c in t)s&&"prototype"===c||!F(t,c)||G(o,l(c));if(xe)for(var p=ke(t),h=0;h<Ce;h++){var f=Te[h];p&&"constructor"===f||!F(t,f)||G(o,f)}return o}});var Me=i.keys&&function(){return 2===i.keys(arguments).length}(1,2),Re=i.keys&&function(){var e=i.keys(arguments);return 1!==arguments.length||1!==e.length||1!==e[0]}(1),Ue=i.keys;q(i,{keys:function(e){return Ue(Le(e)?H(e):e)}},!Me||Re);var Pe,qe,Be=0!==new Date((-0xc782b5b342b24)).getUTCMonth(),Ne=new Date((-0x55d318d56a724)),ze=new Date(14496624e5),$e="Mon, 01 Jan -45875 11:59:59 GMT"!==Ne.toUTCString(),Fe=Ne.getTimezoneOffset();Fe<-720?(Pe="Tue Jan 02 -45875"!==Ne.toDateString(),qe=!/^Thu Dec 10 2015 \d\d:\d\d:\d\d GMT[-\+]\d\d\d\d(?:|$)/.test(ze.toString())):(Pe="Mon Jan 01 -45875"!==Ne.toDateString(),qe=!/^Wed Dec 09 2015 \d\d:\d\d:\d\d

GMT[-\+]\d\d\d\d(?: |$)/.test(ze.toString()));var
Ve=v.bind(Date.prototype.getFullYear),He=v.bind(Date.prototype.getMonth),Ye=v.bind(Date.prototype.getDate),Je=v.bind(Date.prototype.getUTCFullYear),We=v.bind(Date.prototype.getUTCMonth),Qe=v.bind(Date.prototype.getUTCDate),Ge=v.bind(Date.prototype.getUTCDay),Ke=v.bind(Date.prototype.getUTCHours),Xe=v.bind(Date.prototype.getUTCMinutes),Ze=v.bind(Date.prototype.getUTCSeconds),et=v.bind(Date.prototype.getUTCMilliseconds),tt=["Sun","Mon","Tue","Wed","Thu","Fri","Sat"],nt=["Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","Oct","Nov","Dec"],rt=function(e,t){return
Ye(new Date(t,e,0))};q(Date.prototype,{getFullYear:function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var e=Ve(this);return
e<0&&He(this)>11?e+1:e},getMonth:function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var e=Ve(this),t=He(this);return e<0&&t>11?0:t},getDate:function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var
e=Ve(this),t=He(this),n=Ye(this);if(e<0&&t>11){if(12===t)return n;var r=rt(0,e+1);return r-n+1}return
n},getUTCFullYear:function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var e=Je(this);return e<0&&We(this)>11?e+1:e},getUTCMonth:function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var e=Je(this),t=We(this);return
e<0&&t>11?0:t},getUTCDate:function(){if(!(this&&this instanceof Date))throw new TypeError("this
is not a Date object.");var e=Je(this),t=We(this),n=Qe(this);if(e<0&&t>11){if(12===t)return n;var
r=rt(0,e+1);return r-n+1}return n}},Be),q(Date.prototype,{toUTCString:function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var
e=Ge(this),t=Qe(this),n=We(this),r=Je(this),i=Ke(this),a=Xe(this),o=Ze(this);return tt[e]+", "+(t<10?"0"+t:t)+"
"+nt[n]+" "+r+" "+(i<10?"0"+i:i)+":"+(a<10?"0"+a:a)+":"+(o<10?"0"+o:o)+"
GMT"}},Be||$e),q(Date.prototype,{toDateString:function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var
e=this.getDay(),t=this.getDate(),n=this.getMonth(),r=this.getFullYear();return tt[e]+" "+nt[n]+" "+(t<10?"0"+t:t)+"
"+r}},Be||Pe),(Be||qe)&&(Date.prototype.toString=function(){if(!(this&&this instanceof Date))throw new TypeError("this is not a Date object.");var
e=this.getDay(),t=this.getDate(),n=this.getMonth(),r=this.getFullYear(),i=this.getHours(),a=this.getMinutes(),o=this.getSeconds(),s=this.getTimezoneOffset(),l=Math.floor(Math.abs(s)/60),u=Math.floor(Math.abs(s)%60);return
tt[e]+" "+nt[n]+" "+(t<10?"0"+t:t)+" "+r+" "+(i<10?"0"+i:i)+":"+(a<10?"0"+a:a)+":"+(o<10?"0"+o:o)+"
GMT"+(s>0?"-
":"+")+(l<10?"0"+l:l)+(u<10?"0"+u:u)},P&&i.defineProperty(Date.prototype,"toString",{configurable:!0,enumerable:!1,writable:!0}));var it=-621987552e5,at="-000001",ot=Date.prototype.toISOString&&new
Date(it).toISOString().indexOf(at)===-1,st=Date.prototype.toISOString&&"1969-12-31T23:59:59.999Z"!==new
Date((-
1)).toISOString(),lt=v.bind(Date.prototype.getTime);q(Date.prototype,{toISOString:function(){if(!isFinite(this)||!isFinite(lt(this)))throw new RangeError("Date.prototype.toISOString called on non-finite value.");var
e=Je(this),t=We(this);e+=Math.floor(t/12),t=(t%12+12)%12;var
n=[t+1,Qe(this),Ke(this),Xe(this),Ze(this)];e=(e<0?"-":e>9999?"+":"")+J("00000"+Math.abs(e),0<=e&&e<=9999?-4:-6);for(var r=0;r<n.length;++r)n[r]=J("00"+n[r],-2);return e+"-"+H(n,0,2).join("-
")+"T"+H(n,2).join(":")+"."+J("000"+et(this),-3)+"Z"}},ot||st);var
ut=function(){try{return Date.prototype.toJSON&&null===new Date(NaN).toJSON()&&new
Date(it).toJSON().indexOf(at)!==-
1&&Date.prototype.toJSON.call({toISOString:function(){return!0}})}catch(e){return!1}}();ut||(Date.prototype.toJSON=function(t){var n=i(this),r=z.ToPrimitive(n);if("number"==typeof r&&!isFinite(r))return null;var
a=n.toISOString;if(!e(a))throw new TypeError("toISOString property is not callable");return a.call(n)});var
ct=1e15===Date.parse("+033658-09-27T01:46:40.000Z"),pt=!isNaN(Date.parse("2012-04-04T24:00:00.500Z"))||!isNaN(Date.parse("2012-11-31T23:59:59.000Z"))||!isNaN(Date.parse("2012-12-

31T23:59:60.000Z")),ht=isNaN(Date.parse("2000-01-01T00:00:00.000Z"));if(ht||pt||!ct){var ft=Math.pow(2,31)-1,dt=N(new Date(1970,0,1,0,0,0,ft+1).getTime());Date=function(e){var t=function(n,r,i,a,o,s,u){var c,p=arguments.length;if(this instanceof e){var h=s,f=u;if(dt&&p>=7&&u>ft){var d=Math.floor(u/ft)*ft,m=Math.floor(d/1e3);h+=m,f-=1e3*m}c=1===p&&l(n)===n?new e(t.parse(n)):p>=7?new e(n,r,i,a,o,h,f):p>=6?new e(n,r,i,a,o,h):p>=5?new e(n,r,i,a,o):p>=4?new e(n,r,i,a):p>=3?new e(n,r,i):p>=2?new e(n,r):p>=1?new e(n instanceof e?+n:n):new e;}else c=e.apply(this,arguments);return B(c)||q(c,{constructor:t},!0),c},n=new RegExp("^(\\d{4}|[+-]\\d{6})(?:-(\\d{2})(?:-(\\d{2})(?:T(\\d{2}):(\\d{2})(?::(\\d{2})(?:(\\.\\d{1,}))?)?(Z|(?:([-+])(\\d{2}):(\\d{2})))?)?)?$"),r=[0,31,59,90,120,151,181,212,243,273,304,334,365],i=function(e,t){var n=t>1?1:0;return r[t]+Math.floor((e-1969+n)/4)-Math.floor((e-1901+n)/100)+Math.floor((e-1601+n)/400)+365*(e-1970)},a=function(t){var n=0,r=t;if(dt&&r>ft){var i=Math.floor(r/ft)*ft,a=Math.floor(i/1e3);n+=a,r-=1e3*a}return c(new e(1970,0,1,0,0,n,r))};for(var o in e)F(e,o)&&(t[o]=e[o]);q(t,{now:e.now,UTC:e.UTC},!0),t.prototype=e.prototype,q(t.prototype,{constructor:t},!0);var s=function(t){var r=n.exec(t);if(r){var o,s=c(r[1]),l=c(r[2]||1)-1,u=c(r[3]||1)-1,p=c(r[4]||0),h=c(r[5]||0),f=c(r[6]||0),d=Math.floor(1e3*c(r[7]||0)),m=Boolean(r[4]&&!r[8]),g="-"===r[9]?1:-1,y=c(r[10]||0),v=c(r[11]||0),b=h>0||f>0||d>0;return p<(b?24:25)&&h<60&&f<60&&d<1e3&&l>-1&&l<12&&y<24&&v<60&&u>-1&&u<i(s,l+1)-i(s,l)&&(o=60*(24*(i(s,l)+u)+p+y*g),o=1e3*(60*(o+h+v*g)+f)+d,m&&(o=a(o)),-864e13<=o&&o<=864e13)?o:NaN}return e.parse.apply(this,arguments)};return q(t,{parse:s}),t}(Date)}Date.now||(Date.now=function(){return(new Date).getTime()});var mt=p.toFixed&&("0.000"!==8e-5.toFixed(3)||"1"!==.9.toFixed(0)||"1.25"!==1.255.toFixed(2)||"1000000000000000128"!==(0xde0b6b3a7640080).toFixed(0)),gt={base:1e7,size:6,data:[0,0,0,0,0,0],multiply:function(e,t){for(var n=-1,r=t;++n<gt.size;)r+=e*gt.data[n],gt.data[n]=r%gt.base,r=Math.floor(r/gt.base)},divide:function(e){for(var t=gt.size,n=0;--t>=0;)n+=gt.data[t],gt.data[t]=Math.floor(n/e),n=n%e*gt.base},numToString:function(){for(var e=gt.size,t="";--e>=0;)if(""!==t||0===e||0!==gt.data[e]){var n=l(gt.data[e]);""===t?t=n:t+=J("0000000",0,7-n.length)+n}return t},pow:function Ut(e,t,n){return 0===t?n:t%2===1?Ut(e,t-1,n*e):Ut(e*e,t/2,n)},log:function(e){for(var t=0,n=e;n>=4096;)t+=12,n/=4096;for(;n>=2;)t+=1,n/=2;return t}},yt=function(e){var t,n,r,i,a,o,s,u;if(t=c(e),t=N(t)?0:Math.floor(t),t<0||t>20)throw new RangeError("Number.toFixed called with invalid number of decimals");if(n=c(this),N(n))return"NaN";if(n<=-1e21||n>=1e21)return l(n);if(r="",n<0&&(r="-",n=-n),i="0",n>1e-21)if(a=gt.log(n*gt.pow(2,69,1))-69,o=a<0?n*gt.pow(2,-a,1):n/gt.pow(2,a,1),o*=4503599627370496,a=52-a,a>0){for(gt.multiply(0,o),s=t;s>=7;)gt.multiply(1e7,0),s-=7;for(gt.multiply(gt.pow(10,s,1),0),s=a-1;s>=23;)gt.divide(1<<23),s-=23;gt.divide(1<<s),gt.multiply(1,1),gt.divide(2),i=gt.numToString()}else gt.multiply(0,o),gt.multiply(1<<-a,0),i=gt.numToString()+J("0.00000000000000000000",2,2+t);return t>0?(u=i.length,i=u<=t?r+J("0.00000000000000000000",0,t-u+2)+i:r+J(i,0,u-t)+"."+J(i,u-t)):i=r+i,i};q(p,{toFixed:yt},mt);var vt=function(){try{return"1"===1..toPrecision(void 0)}catch(e){return!0}}(),bt=p.toPrecision;q(p,{toPrecision:function(e){return"undefined"==typeof e?bt.call(this):bt.call(this,e)}},vt),2!=="ab".split(/(?:ab)*/).length||4!==".".split(/(.?)(.?)/).length||"t"==="tesst".split(/(s)*/)[1]||4!=="test".split(/(?:)/,-1).length||""".split(/.?/).length||".".split(/()()/).length>1?!function(){var e="undefined"==typeof/()??/.exec("")[1],n=Math.pow(2,32)-1;u.split=function(r,i){var a=String(this);if("undefined"==typeof r&&0===i)return[];if(!t(r))return W(this,r,i);var o,s,l,u,c=[],p=(r.ignoreCase?"i":"")+(r.multiline?"m":"")+(r.unicode?"u":"")+(r.sticky?"y":""),h=0,f=new RegExp(r.source,p+"g");e||(o=new RegExp("^"+f.source+"$(?!\\s)",p));var m="undefined"==typeof i?n:z.ToUint32(i);for(s=f.exec(a);s&&(l=s.index+s[0].length,!(l>h&&(G(c,J(a,h,s.index)),!e&&s.length>1&&s[0].replace(o,function(){for(var e=1;e<arguments.length-2;e++)"undefined"==typeof arguments[e]&&(s[e]=void 0)}),s.length>1&&s.index<a.length&&d.apply(c,H(s,1)),u=s[0].length,h=l,c.length>=m)));)f.lastIndex===s.index&

&f.lastIndex++,s=f.exec(a);return
h===a.length?!u&&f.test("")||G(c,""):G(c,J(a,h)),c.length>m?H(c,0,m):c}}():"0".split(void
0,0).length&&(u.split=function(e,t){return"undefined"==typeof e&&0===t?[]:W(this,e,t)});var
wt=u.replace,_t=function(){var
e=[];return"x".replace(/x(.)?/g,function(t,n){G(e,n)}),1===e.length&&"undefined"==typeof
e[0]}();_t||(u.replace=function(n,r){var i=e(r),a=t(n)&&/\)[*?]/.test(n.source);if(i&&a){var o=function(e){var
t=arguments.length,i=n.lastIndex;n.lastIndex=0;var a=n.exec(e)||[];return n.lastIndex=i,G(a,arguments[t-
2],arguments[t-1]),r.apply(this,a)};return wt.call(this,n,o)}return wt.call(this,n,r)});var
xt=u.substr,At="".substr&&"b"!=="0b".substr(-1);q(u,{substr:function(e,t){var n=e;return
e<0&&(n=w(this.length+e,0)),xt.call(this,n,t)}},At);var St="\t\n\x0B\f\r
\u2028\u2029\ufeff",jt="",Et="["+St+"]",Ot=new RegExp("^"+Et+Et+"*"),kt=new
RegExp(Et+Et+"*$"),Tt=u.trim&&(St.trim()||!jt.trim());q(u,{trim:function(){if("undefined"==typeof
this||null===this)throw new TypeError("can't convert "+this+" to object");return
l(this).replace(Ot,"").replace(kt,"")}},Tt);var
Ct=v.bind(String.prototype.trim),It=u.lastIndexOf&&"abc".lastIndexOf("",2)!==-
1;q(u,{lastIndexOf:function(e){if("undefined"==typeof this||null===this)throw new TypeError("can't convert
"+this+" to object");for(var
t=l(this),n=l(e),r=arguments.length>1?c(arguments[1]):NaN,i=N(r)?1/0:z.ToInteger(r),a=_(w(i,0),t.length),o=n.lengt
h,s=a+o;s>0;){s=w(0,s-o);var u=Q(J(t,s,a+o),n);if(u!==-1)return s+u}return-1}},It);var
Dt=u.lastIndexOf;if(q(u,{lastIndexOf:function(e){return
Dt.apply(this,arguments)}},1!==u.lastIndexOf.length),8===parseInt(St+"08")&&22===parseInt(St+"0x16")||(parseI
nt=function(e){var t=/^[\-+]?0[xX]/;return function(n,r){var i=Ct(String(n)),a=c(r)||(t.test(i)?16:10);return
e(i,a)}}(parseInt)),1/parseFloat("-0")!==-(1/0)&&(parseFloat=function(e){return function(t){var
n=Ct(String(t)),r=e(n);return 0===r&&"-"===J(n,0,1)?-0:r}}(parseFloat)),"RangeError:
test"!==String(new RangeError("test"))){var Lt=function(){if("undefined"==typeof this||null===this)throw new
TypeError("can't convert "+this+" to object");var e=this.name;"undefined"==typeof e?e="Error":"string"!=typeof
e&&(e=l(e));var t=this.message;return"undefined"==typeof t?t="":"string"!=typeof t&&(t=l(t)),e?t?e+":
"+t:e:t};Error.prototype.toString=Lt}if(P){var Mt=function(e,t){if(K(e,t)){var
n=Object.getOwnPropertyDescriptor(e,t);n.configurable&&(n.enumerable=!1,Object.defineProperty(e,t,n))}};Mt(Er
ror.prototype,"message"),""!==Error.prototype.message&&(Error.prototype.message=""),Mt(Error.prototype,"name
")}if("/a/gim"!==String(/a/gim)){var Rt=function(){var e="/"+this.source+"/";return
this.global&&(e+="g"),this.ignoreCase&&(e+="i"),this.multiline&&(e+="m"),e};RegExp.prototype.toString=Rt}})
,Handlebars.registerHelper("sanitize",function(e){var t;return void
0===e?"":(t=sanitizeHtml(e,{allowedTags:["div","span","b","i","em","strong","a"],allowedAttributes:{div:["class"],
span:["class"],a:["href"]}}),new
Handlebars.SafeString(t))}),Handlebars.registerHelper("renderTextParam",function(e){var
t,n="text",r="",i=e.type||e.schema&&e.schema.type||"",a="array"===i.toLowerCase()||e.allowMultiple,o=a&&Array
.isArray(e["default"])?e["default"].join("\n"):e["default"],s=Handlebars.Utils.escapeExpression(e.name),l=Handleba
rs.Utils.escapeExpression(e.valueId);i=Handlebars.Utils.escapeExpression(i);var
u=Object.keys(e).filter(function(e){return null!==e.match(/^X-data-/i)}).reduce(function(t,n){return t+="
"+n.substring(2,n.length)+"='"+e[n]+"'"},"");if(e.format&&"password"===e.format&&(n="password"),l&&(r="
id='"+l+"'"),o=o?sanitizeHtml(o):"",a)t="<textarea class='body-textarea"+(e.required?" required":"")+"'
name='"+s+"'"+r+u,t+=" placeholder='Provide multiple values in new lines"+(e.required?" (at least one
required).":".")+"'>",t+=o+"</textarea>";else{var c="parameter";e.required&&(c+=" required"),t="<input
class='"+c+"' minlength='"+(e.required?1:0)+"'",t+="
name='"+s+"' placeholder='"+(e.required?"(required)":"")+"'"+r+u,t+=" type='"+n+"' value='"+o+"'/>"}return new
Handlebars.SafeString(t)}),Handlebars.registerHelper("ifCond",function(e,t,n,r){switch(t){case"==":return
e==n?r.fn(this):r.inverse(this);case"===":return e===n?r.fn(this):r.inverse(this);case"<":return

e<n?r.fn(this):r.inverse(this);case"<=":return e<=n?r.fn(this):r.inverse(this);case">":return
e>n?r.fn(this):r.inverse(this);case">=":return e>=n?r.fn(this):r.inverse(this);case"&&":return
e&&n?r.fn(this):r.inverse(this);case"||":return e||n?r.fn(this):r.inverse(this);default:return
r.inverse(this)}}),Handlebars.registerHelper("escape",function(e){var
t=Handlebars.Utils.escapeExpression(e);return new Handlebars.SafeString(t)}),function(e){if("object"==typeof
exports&&"undefined"!=typeof module)module.exports=e();else if("function"==typeof
define&&define.amd)define([],e);else{var t;t="undefined"!=typeof window?window:"undefined"!=typeof
global?global:"undefined"!=typeof
self?self:this,t.sanitizeHtml=e()}}(function(){return function e(t,n,r){function i(o,s){if(!n[o]){if(!t[o]){var
l="function"==typeof require&&require;if(!s&&l)return l(o,!0);if(a)return a(o,!0);var u=new Error("Cannot find
module '"+o+"'");throw u.code="MODULE_NOT_FOUND",u}var
c=n[o]={exports:{}};t[o][0].call(c.exports,function(e){var n=t[o][1][e];return i(n?n:e)},c,c.exports,e,t,n,r)}return
n[o].exports}for(var a="function"==typeof require&&require,o=0;o<r.length;o++)i(r[o]);return
i}({1:[function(e,t,n){function r(e,t){e&&Object.keys(e).forEach(function(n){t(e[n],n)})}function
i(e,t){return{}.hasOwnProperty.call(e,t)}function a(e,t,n){function c(e,t){var
n=this;this.tag=e,this.attribs=t||{},this.tagPosition=d.length,this.text="",this.updateParentNodeText=function(){if(x.l
ength){var e=x[x.length-1];e.text+=n.text}}}function p(e){return"string"!=typeof
e&&(e+=""),e.replace(/\&/g,"&").replace(/</g,"<").replace(/\>/g,">").replace(/\"/g,""")}function
h(e,n){n=n.replace(/[\x00-\x20]+/g,""),n=n.replace(/<\!\-\-.*?\-\-\>/g,"");var r=n.match(/^([a-zA-
Z]+)\:/);if(!r)return!1;var a=r[1].toLowerCase();return
i(t.allowedSchemesByTag,e)?t.allowedSchemesByTag[e].indexOf(a)===-
1:!t.allowedSchemes||t.allowedSchemes.indexOf(a)===-1}function f(e,t){return
t?(e=e.split(/\s+/),e.filter(function(e){return t.indexOf(e)!==-1}).join(" ")):e}var
d="";t?(t=s(a.defaults,t),t.parser?t.parser=s(u,t.parser):t.parser=u):(t=a.defaults,t.parser=u);var
m,g,y=t.nonTextTags||["script","style","textarea"];t.allowedAttributes&&(m={},g={},r(t.allowedAttributes,function
(e,t){m[t]=[];var
n=[];e.forEach(function(e){e.indexOf("*")>=0?n.push(l(e).replace(/*/g,".*")):m[t].push(e)}),g[t]=new
RegExp("^("+n.join("|")+")$")}));var
v={};r(t.allowedClasses,function(e,t){m&&(i(m,t)||(m[t]=[]),m[t].push("class")),v[t]=e});var
b,w={};r(t.transformTags,function(e,t){var n;"function"==typeof e?n=e:"string"==typeof
e&&(n=a.simpleTransform(e)),"*"===t?b=n:w[t]=n});var _=0,x=[],A={},S={},j=!1,E=0,O=new
o.Parser({onopentag:function(e,n){if(j)return void E++;var a=new c(e,n);x.push(a);var
o,s=!1,l=!!a.text;i(w,e)&&(o=w[e](e,n),a.attribs=n=o.attribs,void
0!==o.text&&(a.innerText=o.text),e!==o.tagName&&(a.name=e=o.tagName,S[_]=o.tagName)),b&&(o=b(e,n),a.att
ribs=n=o.attribs,e!==o.tagName&&(a.name=e=o.tagName,S[_]=o.tagName)),t.allowedTags&&t.allowedTags.index
Of(e)===-1&&(s=!0,y.indexOf(e)!==-
1&&(j=!0,E=1),A[_]=!0),_++,s||(d+="<"+e,(!m||i(m,e)||m["*"])&&r(n,function(t,n){if(!m||i(m,e)&&m[e].indexOf(n
)!==-1||m["*"]&&m["*"].indexOf(n)!==-
1||i(g,e)&&g[e].test(n)||g["*"]&&g["*"].test(n)){if(("href"===n||"src"===n)&&h(e,t))return void delete
a.attribs[n];if("class"===n&&(t=f(t,v[e]),!t.length))return void delete a.attribs[n];d+="
"+n,t.length&&(d+='="'+p(t)+'"')}else delete a.attribs[n]}),t.selfClosing.indexOf(e)!==-1?d+="
/>":(d+=">",!a.innerText||l||t.textFilter||(d+=a.innerText)))},ontext:function(e){if(!j){var n,r=x[x.length-
1];if(r&&(n=r.tag,e=void 0!==r.innerText?r.innerText:e),"script"===n||"style"===n)d+=e;else{var
i=p(e);d+=t.textFilter?t.textFilter(i):i}if(x.length){var a=x[x.length-
1];a.text+=e}}},onclosetag:function(e){if(j){if(E--,E)return;j=!1}var n=x.pop();if(n){if(j=!1,_--,A[_])return delete
A[_],void n.updateParentNodeText();if(S[_]&&(e=S[_],delete S[_]),t.exclusiveFilter&&t.exclusiveFilter(n))return
void(d=d.substr(0,n.tagPosition));n.updateParentNodeText(),t.selfClosing.indexOf(e)===-
1&&(d+="</"+e+">")}}},t.parser);return O.write(e),O.end(),d}var o=e("htmlparser2"),s=e("xtend"),l=e("regexp-

quote");t.exports=a;var
u={decodeEntities:!0};a.defaults={allowedTags:["h3","h4","h5","h6","blockquote","p","a","ul","ol","nl","li","b","i"
,"strong","em","strike","code","hr","br","div","table","thead","caption","tbody","tr","th","td","pre"],allowedAttribut
es:{a:["href","name","target"],img:["src"]},selfClosing:["img","br","hr","area","base","basefont","input","link","met
a"],allowedSchemes:["http","https","ftp","mailto"],allowedSchemesByTag:{}},a.simpleTransform=function(e,t,n){r
eturn
n=void 0===n||n,t=t||{},function(r,i){var a;if(n)for(a in t)i[a]=t[a];else
i=t;return{tagName:e,attribs:i}}}},{htmlparser2:36,"regexp-quote":54,xtend:58}],2:[function(e,t,n){"use
strict";function r(){for(var
e="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/",t=0,n=e.length;t<n;++t)
l[t]=e[t],u[e.charCodeAt(t)]=t;u["-".charCodeAt(0)]=62,u["_".charCodeAt(0)]=63}function i(e){var
t,n,r,i,a,o,s=e.length;if(s%4>0)throw new Error("Invalid string. Length must be a multiple of 4");a="="===e[s-
2]?2:"="===e[s-1]?1:0,o=new c(3*s/4-a),r=a>0?s-4:s;var
l=0;for(t=0,n=0;t<r;t+=4,n+=3)i=u[e.charCodeAt(t)]<<18|u[e.charCodeAt(t+1)]<<12|u[e.charCodeAt(t+2)]<<6|u[e.
charCodeAt(t+3)],o[l++]=i>>16&255,o[l++]=i>>8&255,o[l++]=255&i;return
2===a?(i=u[e.charCodeAt(t)]<<2|u[e.charCodeAt(t+1)]>>4,o[l++]=255&i):1===a&&(i=u[e.charCodeAt(t)]<<10|u[
e.charCodeAt(t+1)]<<4|u[e.charCodeAt(t+2)]>>2,o[l++]=i>>8&255,o[l++]=255&i),o}function a(e){return
l[e>>18&63]+l[e>>12&63]+l[e>>6&63]+l[63&e]}function
o(e,t,n){for(var r,i=[],o=t;o<n;o+=3)r=(e[o]<<16)+(e[o+1]<<8)+e[o+2],i.push(a(r));return i.join("")}function
s(e){for(var t,n=e.length,r=n%3,i="",a=[],s=16383,u=0,c=n-r;u<c;u+=s)a.push(o(e,u,u+s>c?c:u+s));return
1===r?(t=e[n-1],i+=l[t>>2],i+=l[t<<4&63],i+="=="):2===r&&(t=(e[n-2]<<8)+e[n-
1],i+=l[t>>10],i+=l[t>>4&63],i+=l[t<<2&63],i+="="),a.push(i),a.join("")}n.toByteArray=i,n.fromByteArray=s;var
l=[],u=[],c="undefined"!=typeof
Uint8Array?Uint8Array:Array;r()},{}],3:[function(e,t,n){},{}],4:[function(e,t,n){(function(t){"use strict";var
r=e("buffer"),i=r.Buffer,a=r.SlowBuffer,o=r.kMaxLength||2147483647;n.alloc=function(e,t,n){if("function"==typeo
f i.alloc)return i.alloc(e,t,n);if("number"==typeof n)throw new TypeError("encoding must not be
number");if("number"!=typeof e)throw new TypeError("size must be a number");if(e>o)throw new
RangeError("size is too large");var r=n,a=t;void 0===a&&(r=void 0,a=0);var s=new i(e);if("string"==typeof
a)for(var l=new i(a,r),u=l.length,c=-1;++c<e;)s[c]=l[c%u];else
s.fill(a);return s},n.allocUnsafe=function(e){if("function"==typeof i.allocUnsafe)return
i.allocUnsafe(e);if("number"!=typeof e)throw new TypeError("size must be a number");if(e>o)throw new
RangeError("size is too large");return new i(e)},n.from=function(e,n,r){if("function"==typeof
i.from&&(!t.Uint8Array||Uint8Array.from!==i.from))return i.from(e,n,r);if("number"==typeof e)throw new
TypeError('"value" argument must not be a number');if("string"==typeof e)return new i(e,n);if("undefined"!=typeof
ArrayBuffer&&e instanceof ArrayBuffer){var a=n;if(1===arguments.length)return new i(e);"undefined"==typeof
a&&(a=0);var o=r;if("undefined"==typeof o&&(o=e.byteLength-a),a>=e.byteLength)throw new
RangeError("'offset' is out of bounds");if(o>e.byteLength-a)throw new RangeError("'length' is out of
bounds");return new i(e.slice(a,a+o))}if(i.isBuffer(e)){var s=new i(e.length);return
e.copy(s,0,0,e.length),s}if(e){if(Array.isArray(e)||"undefined"!=typeof ArrayBuffer&&e.buffer
instanceof ArrayBuffer||"length"in e)return new i(e);if("Buffer"===e.type&&Array.isArray(e.data))return new
i(e.data)}throw new TypeError("First argument must be a string, Buffer, ArrayBuffer, Array, or array-like
object.")},n.allocUnsafeSlow=function(e){if("function"==typeof i.allocUnsafeSlow)return
i.allocUnsafeSlow(e);if("number"!=typeof e)throw new TypeError("size must be a number");if(e>=o)throw new
RangeError("size is too large");return new a(e)}}).call(this,"undefined"!=typeof global?global:"undefined"!=typeof
self?self:"undefined"!=typeof window?window:{})},{buffer:5}],5:[function(e,t,n){(function(t){"use strict";function
r(){try{var e=new Uint8Array(1);return e.__proto__={__proto__:Uint8Array.prototype,foo:function(){return
42}},42===e.foo()&&"function"==typeof
e.subarray&&0===e.subarray(1,1).byteLength}catch(t){return!1}}function i(){return

o.TYPED_ARRAY_SUPPORT?2147483647:1073741823}function a(e,t){if(i()<t)throw new RangeError("Invalid typed array length");return
o.TYPED_ARRAY_SUPPORT?(e=new Uint8Array(t),e.__proto__=o.prototype):(null===e&&(e=new o(t)),e.length=t),e}function o(e,t,n){if(!(o.TYPED_ARRAY_SUPPORT||this instanceof o))return new o(e,t,n);if("number"==typeof e){if("string"==typeof t)throw new Error("If encoding is specified then the first argument must be a string");return c(this,e)}return s(this,e,t,n)}function s(e,t,n,r){if("number"==typeof t)throw new TypeError('"value" argument must not be a number');return"undefined"!=typeof ArrayBuffer&&t instanceof ArrayBuffer?f(e,t,n,r):"string"==typeof t?p(e,t,n):d(e,t)}function l(e){if("number"!=typeof e)throw new TypeError('"size" argument must be a number');if(e<0)throw new RangeError('"size" argument must not be negative')}function u(e,t,n,r){return l(t),t<=0?a(e,t):void 0!==n?"string"==typeof r?a(e,t).fill(n,r):a(e,t).fill(n):a(e,t)}function c(e,t){if(l(t),e=a(e,t<0?0:0|m(t)),!o.TYPED_ARRAY_SUPPORT)for(var n=0;n<t;++n)e[n]=0;return e}function p(e,t,n){if("string"==typeof n&&""!==n||(n="utf8"),!o.isEncoding(n))throw new TypeError('"encoding" must be a valid string encoding');var r=0|y(t,n);e=a(e,r);var i=e.write(t,n);return i!==r&&(e=e.slice(0,i)),e}function h(e,t){var n=t.length<0?0:0|m(t.length);e=a(e,n);for(var r=0;r<n;r+=1)e[r]=255&t[r];return e}function f(e,t,n,r){if(t.byteLength,n<0||t.byteLength<n)throw new RangeError("'offset' is out of bounds");if(t.byteLength<n+(r||0))throw new RangeError("'length' is out of bounds");return t=void 0===n&&void 0===r?new Uint8Array(t):void 0===r?new Uint8Array(t,n):new Uint8Array(t,n,r),o.TYPED_ARRAY_SUPPORT?(e=t,e.__proto__=o.prototype):e=h(e,t),e}function d(e,t){if(o.isBuffer(t)){var n=0|m(t.length);return e=a(e,n),0===e.length?e:(t.copy(e,0,0,n),e)}if(t){if("undefined"!=typeof ArrayBuffer&&t.buffer instanceof ArrayBuffer||"length"in t)return"number"!=typeof t.length||G(t.length)?a(e,0):h(e,t);if("Buffer"===t.type&&Z(t.data))return h(e,t.data)}throw new TypeError("First argument must be a string, Buffer, ArrayBuffer,
Array, or array-like object.")}function m(e){if(e>=i())throw new RangeError("Attempt to allocate Buffer larger than maximum size: 0x"+i().toString(16)+" bytes");return 0|e}function g(e){return+e!=e&&(e=0),o.alloc(+e)}function y(e,t){if(o.isBuffer(e))return e.length;if("undefined"!=typeof ArrayBuffer&&"function"==typeof ArrayBuffer.isView&&(ArrayBuffer.isView(e)||e instanceof ArrayBuffer))return e.byteLength;"string"!=typeof e&&(e=""+e);var n=e.length;if(0===n)return 0;for(var r=!1;;)switch(t){case"ascii":case"latin1":case"binary":return n;case"utf8":case"utf-8":case void 0:return H(e).length;case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return 2*n;case"hex":return n>>>1;case"base64":return W(e).length;default:if(r)return H(e).length;t=(""+t).toLowerCase(),r=!0}}function v(e,t,n){var r=!1;if((void 0===t||t<0)&&(t=0),t>this.length)return"";if((void 0===n||n>this.length)&&(n=this.length),n<=0)return"";if(n>>>=0,t>>>=0,n<=t)return"";for(e||(e="utf8");;)switch(e){case"hex":return L(this,t,n);case"utf8":case"utf-8":return
T(this,t,n);case"ascii":return I(this,t,n);case"latin1":case"binary":return D(this,t,n);case"base64":return k(this,t,n);case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return M(this,t,n);default:if(r)throw new TypeError("Unknown encoding: "+e);e=(e+"").toLowerCase(),r=!0}}function b(e,t,n){var r=e[t];e[t]=e[n],e[n]=r}function w(e,t,n,r,i){if(0===e.length)return-1;if("string"==typeof n?(r=n,n=0):n>2147483647?n=2147483647:n<-2147483648&&(n=-2147483648),n=+n,isNaN(n)&&(n=i?0:e.length-1),n<0&&(n=e.length+n),n>=e.length){if(i)return-1;n=e.length-1}else if(n<0){if(!i)return-1;n=0}if("string"==typeof t&&(t=o.from(t,r)),o.isBuffer(t))return 0===t.length?-1:_(e,t,n,r,i);if("number"==typeof t)return t=255&t,o.TYPED_ARRAY_SUPPORT&&"function"==typeof Uint8Array.prototype.indexOf?i?Uint8Array.prototype.indexOf.call(e,t,n):Uint8Array.prototype.lastIndexOf.call(e,t,n):_(e,[t],n,r,i);throw new TypeError("val must be string, number or Buffer")}function _(e,t,n,r,i){function a(e,t){return 1===o?e[t]:e.readUInt16BE(t*o)}var o=1,s=e.length,l=t.length;if(void 0!==r&&(r=String(r).toLowerCase(),"ucs2"===r||"ucs-2"===r||"utf16le"===r||"utf-16le"===r)){if(e.length<2||t.length<2)return-1;o=2,s/=2,l/=2,n/=2}var u;if(i){var c=-1;for(u=n;u<s;u++)if(a(e,u)===a(t,c===-1?0:u-c)){if(c===-1&&(c=u),u-c+1===l)return c*o}else c!==-1&&(u-=u-

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c),c=-1}else for(n+l>s&&(n=s-l),u=n;u>=0;u--){for(var
p=!0,h=0;h<l;h++)if(a(e,u+h)!==a(t,h)){p=!1;break}if(p)return u}return-1}function x(e,t,n,r){n=Number(n)||0;var
i=e.length-n;r?(r=Number(r),r>i&&(r=i)):r=i;var a=t.length;if(a%2!==0)throw new TypeError("Invalid hex
string");r>a/2&&(r=a/2);for(var o=0;o<r;++o){var s=parseInt(t.substr(2*o,2),16);if(isNaN(s))return
o;e[n+o]=s}return o}function A(e,t,n,r){return Q(H(t,e.length-n),e,n,r)}function S(e,t,n,r){return
Q(Y(t),e,n,r)}function j(e,t,n,r){return S(e,t,n,r)}function E(e,t,n,r){return Q(W(t),e,n,r)}function O(e,t,n,r){return
Q(J(t,e.length-n),e,n,r)}function k(e,t,n){return
0===t&&n===e.length?K.fromByteArray(e):K.fromByteArray(e.slice(t,n))}function
T(e,t,n){n=Math.min(e.length,n);for(var r=[],i=t;i<n;){var
a=e[i],o=null,s=a>239?4:a>223?3:a>191?2:1;if(i+s<=n){var l,u,c,p;switch(s){case 1:a<128&&(o=a);break;case
2:l=e[i+1],128===(192&l)&&(p=(31&a)<<6|63&l,p>127&&(o=p));break;case
3:l=e[i+1],u=e[i+2],128===(192&l)&&128===(192&u)&&(p=(15&a)<<12|(63&l)<<6|63&u,p>2047&&(p<55296||p>57343)&&(o=p));break;case
4:l=e[i+1],u=e[i+2],c=e[i+3],128===(192&l)&&128===(192&u)&&128===(192&c)&&(p=(15&a)<<18|(63&l)<<12|(63&u)<<6|63&c,p>65535&&p<1114112&&(o=p))}}null===o?(o=65533,s=1):o>65535&&(o-=65536,r.push(o>>>10&1023|55296),o=56320|1023&o),r.push(o),i+=s}return C(r)}function C(e){var
t=e.length;if(t<=ee)return String.fromCharCode.apply(String,e);for(var
n="",r=0;r<t;)n+=String.fromCharCode.apply(String,e.slice(r,r+=ee));return n}function I(e,t,n){var
r="";n=Math.min(e.length,n);for(var i=t;i<n;++i)r+=String.fromCharCode(127&e[i]);return r}function D(e,t,n){var
r="";n=Math.min(e.length,n);for(var
i=t;i<n;++i)r+=String.fromCharCode(e[i]);return r}function L(e,t,n){var
r=e.length;(!t||t<0)&&(t=0),(!n||n<0||n>r)&&(n=r);for(var i="",a=t;a<n;++a)i+=V(e[a]);return i}function
M(e,t,n){for(var r=e.slice(t,n),i="",a=0;a<r.length;a+=2)i+=String.fromCharCode(r[a]+256*r[a+1]);return
i}function R(e,t,n){if(e%1!==0||e<0)throw new RangeError("offset is not uint");if(e+t>n)throw new
RangeError("Trying to access beyond buffer length")}function U(e,t,n,r,i,a){if(!o.isBuffer(e))throw new
TypeError('"buffer" argument must be a Buffer instance');if(t>i||t<a)throw new RangeError('"value" argument is out
of bounds');if(n+r>e.length)throw new RangeError("Index out of range")}function
P(e,t,n,r){t<0&&(t=65535+t+1);for(var i=0,a=Math.min(e.length-n,2);i<a;++i)e[n+i]=(t&255<<8*(r?i:1-
i))>>>8*(r?i:1-i)}function q(e,t,n,r){t<0&&(t=4294967295+t+1);for(var i=0,a=Math.min(e.length-
n,4);i<a;++i)e[n+i]=t>>>8*(r?i:3-i)&255}function B(e,t,n,r,i,a){if(n+r>e.length)throw new RangeError("Index
out of range");if(n<0)throw new RangeError("Index out of range")}function N(e,t,n,r,i){return
i||B(e,t,n,4,3.4028234663852886e38,-3.4028234663852886e38),X.write(e,t,n,r,23,4),n+4}function z(e,t,n,r,i){return
i||B(e,t,n,8,1.7976931348623157e308,-1.7976931348623157e308),X.write(e,t,n,r,52,8),n+8}function
$(e){if(e=F(e).replace(te,""),e.length<2)return"";for(;e.length%4!==0;)e+="=";return e}function F(e){return
e.trim?e.trim():e.replace(/^\s+|\s+$/g,"")}function V(e){return e<16?"0"+e.toString(16):e.toString(16)}function
H(e,t){t=t||1/0;for(var
n,r=e.length,i=null,a=[],o=0;o<r;++o){if(n=e.charCodeAt(o),n>55295&&n<57344){if(!i){if(n>56319){(t-=3)>-
1&&a.push(239,191,189);continue}if(o+1===r){(t-=3)>-
1&&a.push(239,191,189);continue}i=n;continue}if(n<56320){(t-=3)>-1&&a.push(239,191,189),i=n;continue}n=(i-
55296<<10|n-56320)+65536}else i&&(t-=3)>-1&&a.push(239,191,189);if(i=null,n<128){if((t-
=1)<0)break;a.push(n)}else if(n<2048){if((t-=2)<0)break;a.push(n>>6|192,63&n|128)}else if(n<65536){if((t-
=3)<0)break;a.push(n>>12|224,n>>6&63|128,63&n|128)}else{if(!(n<1114112))throw
new Error("Invalid code point");if((t-
=4)<0)break;a.push(n>>18|240,n>>12&63|128,n>>6&63|128,63&n|128)}}return a}function Y(e){for(var
t=[],n=0;n<e.length;++n)t.push(255&e.charCodeAt(n));return t}function J(e,t){for(var
n,r,i,a=[],o=0;o<e.length&&!((t-=2)<0);++o)n=e.charCodeAt(o),r=n>>8,i=n%256,a.push(i),a.push(r);return
a}function W(e){return K.toByteArray($(e))}function Q(e,t,n,r){for(var
i=0;i<r&&!(i+n>=t.length||i>=e.length);++i)t[i+n]=e[i];return i}function G(e){return e!==e}var K=e("base64-
```

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js"),X=e("ieee754"),Z=e("isarray");n.Buffer=o,n.SlowBuffer=g,n.INSPECT_MAX_BYTES=50,o.TYPED_ARRAY_SUPPORT=void
0!==t.TYPED_ARRAY_SUPPORT?t.TYPED_ARRAY_SUPPORT:r(),n.kMaxLength=i(),o.poolSize=8192,o._augment=function(e){return e.__proto__=o.prototype,e},o.from=function(e,t,n){return
s(null,e,t,n)},o.TYPED_ARRAY_SUPPORT&&(o.prototype.__proto__=Uint8Array.prototype,o.__proto__=Uint8Array,"undefined"!=typeof
Symbol&&Symbol.species&&o[Symbol.species]===o&&Object.defineProperty(o,Symbol.species,{value:null,configurable:!0})),o.alloc=function(e,t,n){return
u(null,e,t,n)},o.allocUnsafe=function(e){return c(null,e)},o.allocUnsafeSlow=function(e){return
c(null,e)},o.isBuffer=function(e){return!(null==e||!e._isBuffer)},o.compare=function(e,t){if(!o.isBuffer(e)||!o.isBuffer(t))throw new TypeError("Arguments must be Buffers");if(e===t)return 0;for(var
n=e.length,r=t.length,i=0,a=Math.min(n,r);i<a;++i)if(e[i]!==t[i]){n=e[i],r=t[i];break}return n<r?-
1:r<n?1:0},o.isEncoding=function(e){switch(String(e).toLowerCase()){case"hex":case"utf8":case"utf-
8":case"ascii":case"latin1":case"binary":case"base64":case"ucs2":case"ucs-2":case"utf16le":case"utf-
16le":return!0;default:return!1}},o.concat=function(e,t){if(!Z(e))throw new TypeError('"list" argument must be an Array of Buffers');if(0===e.length)return o.alloc(0);var n;if(void
0===t)for(t=0,n=0;n<e.length;++n)t+=e[n].length;var r=o.allocUnsafe(t),i=0;for(n=0;n<e.length;++n){var
a=e[n];if(!o.isBuffer(a))throw new TypeError('"list" argument must be an Array of
Buffers');a.copy(r,i),i+=a.length}return
r},o.byteLength=y,o.prototype._isBuffer=!0,o.prototype.swap16=function(){var e=this.length;if(e%2!==0)throw new RangeError("Buffer size must be a multiple of 16-bits");for(var t=0;t<e;t+=2)b(this,t,t+1);return
this},o.prototype.swap32=function(){var e=this.length;if(e%4!==0)throw new RangeError("Buffer size must be a multiple of 32-bits");for(var t=0;t<e;t+=4)b(this,t,t+3),b(this,t+1,t+2);return
this},o.prototype.swap64=function(){var e=this.length;if(e%8!==0)throw new RangeError("Buffer size must be a multiple of 64-bits");for(var t=0;t<e;t+=8)b(this,t,t+7),b(this,t+1,t+6),b(this,t+2,t+5),b(this,t+3,t+4);return
this},o.prototype.toString=function(){var e=0|this.length;return
0===e?"":0===arguments.length?T(this,0,e):v.apply(this,arguments)},o.prototype.equals=function(e){if(!o.isBuffer(e))throw new TypeError("Argument must be a Buffer");return
this===e||0===o.compare(this,e)},o.prototype.inspect=function(){var e="",t=n.INSPECT_MAX_BYTES;return
this.length>0&&(e=this.toString("hex",0,t).match(/.{2}/g).join(" "),this.length>t&&(e+=" ... ")),"<Buffer
"+e+">"},o.prototype.compare=function(e,t,n,r,i){if(!o.isBuffer(e))throw new TypeError("Argument must be a Buffer");if(void 0===t&&(t=0),void 0===n&&(n=e?e.length:0),void 0===r&&(r=0),void
0===i&&(i=this.length),t<0||n>e.length||r<0||i>this.length)throw new RangeError("out of range
index");if(r>=i&&t>=n)return 0;if(r>=i)return-1;if(t>=n)return
1;if(t>>>=0,n>>>=0,r>>>=0,i>>>=0,this===e)return 0;for(var a=i-r,s=n-
t,l=Math.min(a,s),u=this.slice(r,i),c=e.slice(t,n),p=0;p<l;++p)if(u[p]!==c[p]){a=u[p],s=c[p];break}return a<s?-
1:s<a?1:0},o.prototype.includes=function(e,t,n){return this.indexOf(e,t,n)!==-
1},o.prototype.indexOf=function(e,t,n){return w(this,e,t,n,!0)},o.prototype.lastIndexOf=function(e,t,n){return
w(this,e,t,n,!1)},o.prototype.write=function(e,t,n,r){if(void 0===t)r="utf8",n=this.length,t=0;else
if(void 0===n&&"string"==typeof t)r=t,n=this.length,t=0;else{if(!isFinite(t))throw new Error("Buffer.write(string, encoding, offset[, length]) is no longer supported");t=0|t,isFinite(n)?(n=0|n,void 0===r&&(r="utf8")):(r=n,n=void
0)}var i=this.length-t;if((void 0===n||n>i)&&(n=i),e.length>0&&(n<0||t<0)||t>this.length)throw new
RangeError("Attempt to write outside buffer bounds");r||(r="utf8");for(var a=!1;;)switch(r){case"hex":return
x(this,e,t,n);case"utf8":case"utf-8":return A(this,e,t,n);case"ascii":return
S(this,e,t,n);case"latin1":case"binary":return j(this,e,t,n);case"base64":return E(this,e,t,n);case"ucs2":case"ucs-
2":case"utf16le":case"utf-16le":return O(this,e,t,n);default:if(a)throw new TypeError("Unknown encoding:
"+r);r=(""+r).toLowerCase(),a=!0}},o.prototype.toJSON=function(){return{type:"Buffer",data:Array.prototype.slice
.call(this._arr||this,0)}};var ee=4096;o.prototype.slice=function(e,t){var n=this.length;e=~~e,t=void
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0===t?n:~~t,e<0?(e+=n,e<0&&(e=0)):e>n&&(e=n),t<0?(t+=n,t<0&&(t=0)):t>n&&(t=n),t<e&&(t=e);var r;if(o.TYPED_ARRAY_SUPPORT)r=this.subarray(e,t),r.__proto__=o.prototype;else{var i=t-e;r=new o(i,(void 0));for(var a=0;a<i;++a)r[a]=this[a+e]}return r},o.prototype.readUIntLE=function(e,t,n){e=0|e,t=0|t,n||R(e,t,this.length);for(var r=this[e],i=1,a=0;++a<t&&(i*=256);)r+=this[e+a]*i;return r},o.prototype.readUIntBE=function(e,t,n){e=0|e,t=0|t,n||R(e,t,this.length);for(var r=this[e+--t],i=1;t>0&&(i*=256);)r+=this[e+--t]*i;return r},o.prototype.readUInt8=function(e,t){return t||R(e,1,this.length),this[e]},o.prototype.readUInt16LE=function(e,t){return t||R(e,2,this.length),this[e]|this[e+1]<<8},o.prototype.readUInt16BE=function(e,t){return t||R(e,2,this.length),this[e]<<8|this[e+1]},o.prototype.readUInt32LE=function(e,t){return t||R(e,4,this.length),(this[e]|this[e+1]<<8|this[e+2]<<16)+16777216*this[e+3]},o.prototype.readUInt32BE=function(e,t){return t||R(e,4,this.length),16777216*this[e]+(this[e+1]<<16|this[e+2]<<8|this[e+3])},o.prototype.readIntLE=function(e,t,n){e=0|e,t=0|t,n||R(e,t,this.length);for(var r=this[e],i=1,a=0;++a<t&&(i*=256);)r+=this[e+a]*i;return i*=128,r>=i&&(r-=Math.pow(2,8*t)),r},o.prototype.readIntBE=function(e,t,n){e=0|e,t=0|t,n||R(e,t,this.length);for(var r=t,i=1,a=this[e+--r];r>0&&(i*=256);)a+=this[e+--r]*i;return i*=128,a>=i&&(a-=Math.pow(2,8*t)),a},o.prototype.readInt8=function(e,t){return t||R(e,1,this.length),128&this[e]?(255-this[e]+1)*-1:this[e]},o.prototype.readInt16LE=function(e,t){t||R(e,2,this.length);var n=this[e]|this[e+1]<<8;return 32768&n?4294901760|n:n},o.prototype.readInt16BE=function(e,t){t||R(e,2,this.length);var n=this[e+1]|this[e]<<8;return 32768&n?4294901760|n:n},o.prototype.readInt32LE=function(e,t){return t||R(e,4,this.length),this[e]|this[e+1]<<8|this[e+2]<<16|this[e+3]<<24},o.prototype.readInt32BE=function(e,t){return t||R(e,4,this.length),this[e]<<24|this[e+1]<<16|this[e+2]<<8|this[e+3]},o.prototype.readFloatLE=function(e,t){return t||R(e,4,this.length),X.read(this,e,!0,23,4)},o.prototype.readFloatBE=function(e,t){return t||R(e,4,this.length),X.read(this,e,!1,23,4)},o.prototype.readDoubleLE=function(e,t){return t||R(e,8,this.length),X.read(this,e,!0,52,8)},o.prototype.readDoubleBE=function(e,t){
return t||R(e,8,this.length),X.read(this,e,!1,52,8)},o.prototype.writeUIntLE=function(e,t,n,r){if(e=+e,t=0|t,n=0|n,!r){var i=Math.pow(2,8*n)-1;U(this,e,t,n,i,0)}var a=1,o=0;for(this[t]=255&e;++o<n&&(a*=256);)this[t+o]=e/a&255;return t+n},o.prototype.writeUIntBE=function(e,t,n,r){if(e=+e,t=0|t,n=0|n,!r){var i=Math.pow(2,8*n)-1;U(this,e,t,n,i,0)}var a=n-1,o=1;for(this[t+a]=255&e;--a>=0&&(o*=256);)this[t+a]=e/o&255;return t+n},o.prototype.writeUInt8=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,1,255,0),o.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),this[t]=255&e,t+1},o.prototype.writeUInt16LE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,2,65535,0),o.TYPED_ARRAY_SUPPORT?(this[t]=255&e,this[t+1]=e>>>8):P(this,e,t,!0),t+2},o.prototype.writeUInt16BE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,2,65535,0),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=255&e):P(this,e,t,!1),t+2},o.prototype.writeUInt32LE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,4,4294967295,0),o.TYPED_ARRAY_SUPPORT?(this[t+3]=e>>>24,this[t+2]=e>>>16,this[t+1]=e>>>8,this[t]=255&e):q(this,e,t,!0),t+4},o.prototype.writeUInt32BE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,4,4294967295,0),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this[t+2]=e>>>8,this[t+3]=255&e):q(this,e,t,!1),t+4},o.prototype.writeIntLE=function(e,t,n,r){if(e=+e,t=0|t,!r){var i=Math.pow(2,8*n-1);U(this,e,t,n,i-1,-i)}var a=0,o=1,s=0;for(this[t]=255&e;++a<n&&(o*=256);)e<0&&0===s&&0!==this[t+a-1]&&(s=1),this[t+a]=(e/o>>0)-s&255;return t+n},o.prototype.writeIntBE=function(e,t,n,r){if(e=+e,t=0|t,!r){var i=Math.pow(2,8*n-1);U(this,e,t,n,i-1,-i)}var a=n-1,o=1,s=0;for(this[t+a]=255&e;--a>=0&&(o*=256);)e<0&&0===s&&0!==this[t+a+1]&&(s=1),this[t+a]=(e/o>>0)-s&255;return

t+n},o.prototype.writeInt8=function(e,t,n){return
e=+e,t=0|t,n||U(this,e,t,1,127,-
128),o.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),e<0&&(e=255+e+1),this[t]=255&e,t+1},o.prototype.writeI
nt16LE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,2,32767,-
32768),o.TYPED_ARRAY_SUPPORT?(this[t]=255&e,this[t+1]=e>>>8):P(this,e,t,!0),t+2},o.prototype.writeInt16
BE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,2,32767,-
32768),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=255&e):P(this,e,t,!1),t+2},o.prototype.writeInt32
LE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,4,2147483647,-
2147483648),o.TYPED_ARRAY_SUPPORT?(this[t]=255&e,this[t+1]=e>>>8,this[t+2]=e>>>16,this[t+3]=e>>>24
):q(this,e,t,!0),t+4},o.prototype.writeInt32BE=function(e,t,n){return e=+e,t=0|t,n||U(this,e,t,4,2147483647,-
2147483648),e<0&&(e=4294967295+e+1),o.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this
[t+2]=e>>>8,this[t+3]=255&e):q(this,e,t,!1),t+4},o.prototype.writeFloatLE=function(e,t,n){return
N(this,e,t,!0,n)},o.prototype.writeFloatBE=function(e,t,n){return
N(this,e,t,!1,n)},o.prototype.writeDoubleLE=function(e,t,n){return
z(this,e,t,!0,n)},o.prototype.writeDoubleBE=function(e,t,n){return
z(this,e,t,!1,n)},o.prototype.copy=function(e,t,n,r){if(n||(n=0),r||0===r||(r=this.length),t>=e.length&&(t=e.length),t||(
t=0),r>0&&r<n&&(r=n),r===n)return 0;if(0===e.length||0===this.length)return 0;if(t<0)throw new
RangeError("targetStart out of bounds");if(n<0||n>=this.length)throw new RangeError("sourceStart out of
bounds");if(r<0)throw new RangeError("sourceEnd out of bounds");r>this.length&&(r=this.length),e.length-t<r-
n&&(r=e.length-t+n);var i,a=r-n;if(this===e&&n<t&&t<r)for(i=a-1;i>=0;--i)e[i+t]=this[i+n];else
if(a<1e3||!o.TYPED_ARRAY_SUPPORT)for(i=0;i<a;++i)e[i+t]=this[i+n];else
Uint8Array.prototype.set.call(e,this.subarray(n,n+a),t);return
a},o.prototype.fill=function(e,t,n,r){if("string"==typeof e){if("string"==typeof
t?(r=t,t=0,n=this.length):"string"==typeof n&&(r=n,n=this.length),1===e.length){var
i=e.charCodeAt(0);i<256&&(e=i)}if(void
0!==r&&"string"!=typeof r)throw new TypeError("encoding must be a string");if("string"==typeof
r&&!o.isEncoding(r))throw new TypeError("Unknown encoding: "+r)}else"number"==typeof
e&&(e=255&e);if(t<0||this.length<t||this.length<n)throw new RangeError("Out of range index");if(n<=t)return
this;t>>>=0,n=void 0===n?this.length:n>>>0,e||(e=0);var a;if("number"==typeof
e)for(a=t;a<n;++a)this[a]=e;else{var s=o.isBuffer(e)?e:H(new o(e,r).toString()),l=s.length;for(a=0;a<n-
t;++a)this[a+t]=s[a%l]}return this};var te=/[^+\/0-9A-Za-z-_]/g}).call(this,"undefined"!=typeof
global?global:"undefined"!=typeof self?self:"undefined"!=typeof window?window:{})},{"base64-
js":2,ieee754:37,isarray:40}],6:[function(e,t,n){(function(e){function t(e){return
Array.isArray?Array.isArray(e):"[object Array]"===g(e)}function r(e){return"boolean"==typeof e}function
i(e){return null===e}function a(e){return null==e}function o(e){return"number"==typeof e}function
s(e){return"string"==typeof e}function l(e){return"symbol"==typeof
e}function u(e){return void 0===e}function c(e){return"[object RegExp]"===g(e)}function
p(e){return"object"==typeof e&&null!==e}function h(e){return"[object Date]"===g(e)}function f(e){return"[object
Error]"===g(e)||e instanceof Error}function d(e){return"function"==typeof e}function m(e){return
null===e||"boolean"==typeof e||"number"==typeof e||"string"==typeof e||"symbol"==typeof e||"undefined"==typeof
e}function g(e){return
Object.prototype.toString.call(e)}n.isArray=t,n.isBoolean=r,n.isNull=i,n.isNullOrUndefined=a,n.isNumber=o,n.isSt
ring=s,n.isSymbol=l,n.isUndefined=u,n.isRegExp=c,n.isObject=p,n.isDate=h,n.isError=f,n.isFunction=d,n.isPrimiti
ve=m,n.isBuffer=e.isBuffer}).call(this,{isBuffer:e("../../is-buffer/index.js")})},{"../../is-
buffer/index.js":39}],7:[function(e,t,n){function r(e,t){if(e){var n,r="";for(var i in e)n=e[i],r&&(r+="
"),r+=!n&&p[i]?i:i+'="'+(t.decodeEntities?c.encodeXML(n):n)+'"';return r}}function
i(e,t){"svg"===e.name&&(t={decodeEntities:t.decodeEntities,xmlMode:!0});var

n="<"+e.name,i=r(e.attribs,t);return i&&(n+="
"+i),!t.xmlMode||e.children&&0!==e.children.length?(n+=">",e.children&&(n+=d(e.children,t)),f[e.name]&&!t.xml
Mode||(n+="</"+e.name+">")):n+="/>",n}function a(e){return"<"+e.data+">"}function o(e,t){var
n=e.data||"";return!t.decodeEntities||e.parent&&e.parent.name in h||(n=c.encodeXML(n)),n}function
s(e){return"<![CDATA["+e.children[0].data+"]]>"}function l(e){return"<!--"+e.data+"-->"}var
u=e("domelementtype"),c=e("entities"),p={__proto__:null,allowfullscreen:!0,async:!0,autofocus:!0,autoplay:!0,chec
ked:!0,controls:!0,"default":!0,defer:!0,disabled:!0,hidden:!0,ismap:!0,loop:!0,multiple:!0,muted:!0,open:!0,readonly
:!0,required:!0,reversed:!0,scoped:!0,seamless:!0,selected:!0,typemustmatch:!0},h={__proto__:null,style:!0,script:!0
,xmp:!0,iframe:!0,noembed:!0,noframes:!0,plaintext:!0,noscript:!0},f={__proto__:null,area:!0,base:!0,basefont:!0,br
:!0,col:!0,command:!0,embed:!0,frame:!0,hr:!0,img:!0,input:!0,isindex:!0,keygen:!0,link:!0,meta:!0,param:!0,source
:!0,track:!0,wbr:!0},d=t.exports=function(e,t){Array.isArray(e)||e.cheerio||(e=[e]),t=t||{};for(var
n="",r=0;r<e.length;r++){var
c=e[r];n+="root"===c.type?d(c.children,t):u.isTag(c)?i(c,t):c.type===u.Directive?a(c):c.type===u.Comment?l(c):c.t
ype===u.CDATA?s(c):o(c,t)}return
n}},{domelementtype:8,entities:20}],8:[function(e,t,n){t.exports={Text:"text",Directive:"directive",Comment:"com
ment",Script:"script",Style:"style",Tag:"tag",CDATA:"cdata",isTag:function(e){return"tag"===e.type||"script"===e.
type||"style"===e.type}}},{}],9:[function(e,t,n){t.exports={Text:"text",Directive:"directive",Comment:"comment",
Script:"script",Style:"style",Tag:"tag",CDATA:"cdata",Doctype:"doctype",isTag:function(e){return"tag"===e.type||
"script"===e.type||"style"===e.type}}},{}],10:[function(e,t,n){function r(e,t,n){"object"==typeof
e?(n=t,t=e,e=null):"function"==typeof
t&&(n=t,t=l),this._callback=e,this._options=t||l,this._elementCB=n,this.dom=[],this._done=!1,this._tagStack=[],this.
_parser=this._parser||null}var
i=e("domelementtype"),a=/\s+/g,o=e("./lib/node"),s=e("./lib/element"),l={normalizeWhitespace:!1,withStartIndices:
!1};r.prototype.onparserinit=function(e){this._parser=e},r.prototype.onreset=function(){r.call(this,this._callback,this
._options,this._elementCB)},r.prototype.onend=function(){this._done||(this._done=!0,this._parser=null,this._handle
Callback(null))},r.prototype._handleCallback=r.prototype.onerror=function(e){if("function"==typeof
this._callback)this._callback(e,this.dom);else if(e)throw e},r.prototype.onclosetag=function(){var
e=this._tagStack.pop();this._elementCB&&this._elementCB(e)},r.prototype._addDomElement=function(e){var
t=this._tagStack[this._tagStack.length-1],n=t?t.children:this.dom,r=n[n.length-
1];e.next=null,this._options.withStartIndices&&(e.startIndex=this._parser.startIndex),this._options.withDomLvl1&
&(e.__proto__="tag"===e.type?s:o),r?(e.prev=r,r.next=e):e.prev=null,n.push(e),e.parent=t||null},r.prototype.onopen
tag=function(e,t){var
n={type:"script"===e?i.Script:"style"===e?i.Style:i.Tag,name:e,attribs:t,children:[]};this._addDomElement(n),this.
_tagStack.push(n)},r.prototype.ontext=function(e){var
t,n=this._options.normalizeWhitespace||this._options.ignoreWhitespace;!this._tagStack.length&&this.dom.length&
&(t=this.dom[this.dom.length-1]).type===i.Text?n?t.data=(t.data+e).replace(a,"
"):t.data+=e:this._tagStack.length&&(t=this._tagStack[this._tagStack.length-1])&&(t=t.children[t.children.length-
1])&&t.type===i.Text?n?t.data=(t.data+e).replace(a," "):t.data+=e:(n&&(e=e.replace(a,"
")),this._addDomElement({data:e,type:i.Text}))},r.prototype.oncomment=function(e){var
t=this._tagStack[this._tagStack.length-1];if(t&&t.type===i.Comment)return void(t.data+=e);var
n={data:e,type:i.Comment};this._addDomElement(n),this._tagStack.push(n)},r.prototype.oncdatastart=function(){v
ar
e={children:[{data:"",type:i.Text}],type:i.CDATA};this._addDomElement(e),this._tagStack.push(e)},r.prototype.on
commentend=r.prototype.oncdataend=function(){this._tagStack.pop()},r.prototype.onprocessinginstruction=functio
n(e,t){this._addDomElement({name:e,data:t,type:i.Directive})},t.exports=r},{"./lib/element":11,"./lib/node":12,dom
elementtype:9}],11:[function(e,t,n){var
r=e("./node"),i=t.exports=Object.create(r),a={tagName:"name"};Object.keys(a).forEach(function(e){var
t=a[e];Object.defineProperty(i,e,{get:function(){return this[t]||null},set:function(e){return

this[t]=e,e})})},{"./node":12}],12:[function(e,t,n){var r=t.exports={get firstChild(){var e=this.children;return e&&e[0]||null},get lastChild(){var e=this.children;return e&&e[e.length-1]||null},get nodeType(){return a[this.type]||a.element}},i={tagName:"name",childNodes:"children",parentNode:"parent",previousSibling:"prev",nextSibling:"next",nodeValue:"data"},a={element:1,text:3,cdata:4,comment:8};Object.keys(i).forEach(function(e){var t=i[e];Object.defineProperty(r,e,{get:function(){return this[t]||null},set:function(e){return this[t]=e,e}})})},{}],13:[function(e,t,n){var r=t.exports;[e("./lib/stringify"),e("./lib/traversal"),e("./lib/manipulation"),e("./lib/querying"),e("./lib/legacy"),e("./lib/helpers")].forEach(function(e){Object.keys(e).forEach(function(t){r[t]=e[t].bind(r)})})},{"./lib/helpers":14,"./lib/legacy":15,"./lib/manipulation":16,"./lib/querying":17,"./lib/stringify":18,"./lib/traversal":19}],14:[function(e,t,n){n.removeSubsets=function(e){for(var t,n,r,i=e.length;--i>-1;){for(t=n=e[i],e[i]=null,r=!0;n;){if(e.indexOf(n)>-1){r=!1,e.splice(i,1);break}n=n.parent}r&&(e[i]=t)}return e};var r={DISCONNECTED:1,PRECEDING:2,FOLLOWING:4,CONTAINS:8,CONTAINED_BY:16},i=n.compareDocumentPosition=function(e,t){var n,i,a,o,s,l,u=[],c=[];if(e===t)return 0;for(n=e;n;)u.unshift(n),n=n.parent;for(n=t;n;)c.unshift(n),n=n.parent;for(l=0;u[l]===c[l];)l++;return 0===l?r.DISCONNECTED:(i=u[l-1],a=i.children,o=u[l],s=c[l],a.indexOf(o)>a.indexOf(s)?i===t?r.FOLLOWING|r.CONTAINED_BY:r.FOLLOWING:i===e?r.PRECEDING|r.CONTAINS:r.PRECEDING)};n.uniqueSort=function(e){var t,n,a=e.length;for(e=e.slice();--a>-1;)t=e[a],n=e.indexOf(t),n>-1&&n<a&&e.splice(a,1);return e.sort(function(e,t){var n=i(e,t);return n&r.PRECEDING?-1:n&r.FOLLOWING?1:0}),e}},{}],15:[function(e,t,n){function r(e,t){return"function"==typeof t?function(n){return n.attribs&&t(n.attribs[e])}:function(n){return n.attribs&&n.attribs[e]===t}}function i(e,t){return function(n){return e(n)||t(n)}}var a=e("domelementtype"),o=n.isTag=a.isTag;n.testElement=function(e,t){for(var n in e)if(e.hasOwnProperty(n)){if("tag_name"===n){if(!o(t)||!e.tag_name(t.name))return!1}else if("tag_type"===n){if(!e.tag_type(t.type))return!1}else if("tag_contains"===n){if(o(t)||!e.tag_contains(t.data))return!1}else if(!t.attribs||!e[n](t.attribs[n]))return!1}else;return!0};var s={tag_name:function(e){return"function"==typeof e?function(t){return o(t)&&e(t.name)}:"*"===e?o:function(t){return o(t)&&t.name===e}},tag_type:function(e){return"function"==typeof e?function(t){return e(t.type)}:function(t){return t.type===e}},tag_contains:function(e){return"function"==typeof e?function(t){return!o(t)&&e(t.data)}:function(t){return!o(t)&&t.data===e}}};n.getElements=function(e,t,n,a){var o=Object.keys(e).map(function(t){var n=e[t];return t in s?s[t](n):r(t,n)});return 0===o.length?[]:this.filter(o.reduce(i),t,n,a)},n.getElementById=function(e,t,n){return Array.isArray(t)||(t=[t]),this.findOne(r("id",e),t,n!==!1)},n.getElementsByTagName=function(e,t,n,r){return this.filter(s.tag_name(e),t,n,r)},n.getElementsByTagType=function(e,t,n,r){return this.filter(s.tag_type(e),t,n,r)}},{domelementtype:9}],16:[function(e,t,n){n.removeElement=function(e){if(e.prev&&(e.prev.next=e.next),e.next&&(e.next.prev=e.prev),e.parent){var t=e.parent.children;t.splice(t.lastIndexOf(e),1)}},n.replaceElement=function(e,t){var n=t.prev=e.prev;n&&(n.next=t);var r=t.next=e.next;r&&(r.prev=t);var i=t.parent=e.parent;if(i){var a=i.children;a[a.lastIndexOf(e)]=t}},n.appendChild=function(e,t){if(t.parent=e,1!==e.children.push(t)){var n=e.children[e.children.length-2];n.next=t,t.prev=n,t.next=null}},n.append=function(e,t){var n=e.parent,r=e.next;if(t.next=r,t.prev=e,e.next=t,t.parent=n,r){if(r.prev=t,n){var i=n.children;i.splice(i.lastIndexOf(r),0,t)}}else n&&n.children.push(t)},n.prepend=function(e,t){var n=e.parent;if(n){var r=n.children;r.splice(r.lastIndexOf(e),0,t)}e.prev&&(e.prev.next=t),t.parent=n,t.prev=e.prev,t.next=e,e.prev=t}},{}],17:[function(e,t,n){function r(e,t,n,r){return Array.isArray(t)||(t=[t]),"number"==typeof r&&isFinite(r)||(r=1/0),i(e,t,n!==!1,r)}function i(e,t,n,r){for(var

a,o=[],s=0,l=t.length;s<l&&!(e(t[s])&&(o.push(t[s]),--
r<=0))&&(a=t[s].children,!(n&&a&&a.length>0&&(a=i(e,a,n,r),o=o.concat(a),r-=a.length,r<=0)));s++);return
o}function a(e,t){for(var n=0,r=t.length;n<r;n++)if(e(t[n]))return t[n];return null}function o(e,t){for(var
n=null,r=0,i=t.length;r<i&&!n;r++)u(t[r])&&(e(t[r])?n=t[r]:t[r].children.length>0&&(n=o(e,t[r].children)));return
n}function s(e,t){for(var
n=0,r=t.length;n<r;n++)if(u(t[n])&&(e(t[n])||t[n].children.length>0&&s(e,t[n].children)))return!0;return!1}function
l(e,t){for(var
n=[],r=0,i=t.length;r<i;r++)u(t[r])&&(e(t[r])&&n.push(t[r]),t[r].children.length>0&&(n=n.concat(l(e,t[r].children)))
);return n}var
u=e("domelementtype").isTag;t.exports={filter:r,find:i,findOneChild:a,findOne:o,existsOne:s,findAll:l}},{domelem
enttype:9}],18:[function(e,t,n){function r(e,t){return e.children?e.children.map(function(e){return
o(e,t)}).join(""):""}function i(e){return
Array.isArray(e)?e.map(i).join(""):s(e)||e.type===a.CDATA?i(e.children):e.type===a.Text?e.data:""}var
a=e("domelementtype"),o=e("dom-
serializer"),s=a.isTag;t.exports={getInnerHTML:r,getOuterHTML:o,getText:i}},{"dom-
serializer":7,domelementtype:9}],19:[function(e,t,n){var r=n.getChildren=function(e){return
e.children},i=n.getParent=function(e){return e.parent};n.getSiblings=function(e){var t=i(e);return
t?r(t):[e]},n.getAttributeValue=function(e,t){return
e.attribs&&e.attribs[t]},n.hasAttrib=function(e,t){return!!e.attribs&&hasOwnProperty.call(e.attribs,t)},n.getName=f
unction(e){return
e.name}},{}],20:[function(e,t,n){var
r=e("./lib/encode.js"),i=e("./lib/decode.js");n.decode=function(e,t){return(!t||t<=0?i.XML:i.HTML)(e)},n.decodeStri
ct=function(e,t){return(!t||t<=0?i.XML:i.HTMLStrict)(e)},n.encode=function(e,t){return(!t||t<=0?r.XML:r.HTML)(
e)},n.encodeXML=r.XML,n.encodeHTML4=n.encodeHTML5=n.encodeHTML=r.HTML,n.decodeXML=n.decode
XMLStrict=i.XML,n.decodeHTML4=n.decodeHTML5=n.decodeHTML=i.HTML,n.decodeHTML4Strict=n.decode
HTML5Strict=n.decodeHTMLStrict=i.HTMLStrict,n.escape=r.escape},{"./lib/decode.js":21,"./lib/encode.js":23}],2
1:[function(e,t,n){function r(e){var t=Object.keys(e).join("|"),n=a(e);t+="|#[xX][\\da-fA-F]+|#\\d+";var r=new
RegExp("&(?:"+t+");","g");return function(e){return String(e).replace(r,n)}}function i(e,t){return e<t?1:-1}function
a(e){return
function(t){return"#"===t.charAt(1)?u("X"===t.charAt(2)||"x"===t.charAt(2)?parseInt(t.substr(3),16):parseInt(t.sub
str(2),10)):e[t.slice(1,-1)]}}var
o=e("../maps/entities.json"),s=e("../maps/legacy.json"),l=e("../maps/xml.json"),u=e("./decode_codepoint.js"),c=r(l),p
=r(o),h=function(){function e(e){return";"!==e.substr(-1)&&(e+=";"),c(e)}for(var
t=Object.keys(s).sort(i),n=Object.keys(o).sort(i),r=0,l=0;r<n.length;r++)t[l]===n[r]?(n[r]+=";?",l++):n[r]+=";";var
u=new RegExp("&(?:"+n.join("|")+"|#[xX][\\da-fA-F]+;?|#\\d+;?)","g"),c=a(o);return function(t){return
String(t).replace(u,e)}}();t.exports={XML:c,HTML:h,HTMLStrict:p}},{"../maps/entities.json":25,"../maps/legacy.js
on":26,"../maps/xml.json":27,"./decode_codepoint.js":22}],22:[function(e,t,n){function
r(e){if(e>=55296&&e<=57343||e>1114111)return"";e in i&&(e=i[e]);var t="";return e>65535&&(e-
=65536,t+=String.fromCharCode(e>>>10&1023|55296),e=56320|1023&e),t+=String.fromCharCode(e)}var
i=e("../maps/decode.json");t.exports=r},{"../maps/decode.json":24}],23:[function(e,t,n){function r(e){return
Object.keys(e).sort().reduce(function(t,n){return
t[e[n]]="&"+n+";",t},{})}function i(e){var t=[],n=[];return
Object.keys(e).forEach(function(e){1===e.length?t.push("\\"+e):n.push(e)}),n.unshift("["+t.join("")+"]"),new
RegExp(n.join("|"),"g")}function a(e){return"&#x"+e.charCodeAt(0).toString(16).toUpperCase()+";"}function
o(e){var t=e.charCodeAt(0),n=e.charCodeAt(1),r=1024*(t-55296)+n-
56320+65536;return"&#x"+r.toString(16).toUpperCase()+";"}function s(e,t){function n(t){return e[t]}return
function(e){return e.replace(t,n).replace(d,o).replace(f,a)}}function l(e){return
e.replace(m,a).replace(d,o).replace(f,a)}var u=r(e("../maps/xml.json")),c=i(u);n.XML=s(u,c);var

p=r(e("../maps/entities.json")),h=i(p);n.HTML=s(p,h);var f=/[^\0-\x7F]/g,d=/[\uD800-\uDBFF][\uDC00-\uDFFF]/g,m=i(u);n.escape=l},{"../maps/entities.json":25,"../maps/xml.json":27}],24:[function(e,t,n){t.exports={0:65533,128:8364,130:8218,131:402,132:8222,133:8230,134:8224,135:8225,136:710,137:8240,138:352,139:8249,140:338,142:381,145:8216,146:8217,147:8220,148:8221,149:8226,150:8211,151:8212,152:732,153:8482,154:353,155:8250,156:339,158:382,159:376}},{}],25:[function(e,t,n){t.exports={Aacute:"",aacute:"",Abreve:"",abreve:"",ac:"",acd:"",acE:"",Acirc:"",acirc:"",acute:"",Acy:"",acy:"",AElig:"",aelig:"",af:"",Afr:"",afr:"",Agrave:"",agrave:"",alefsym:"",aleph:"",Alpha:"",alpha:"",Amacr:"",amacr:"",amalg:"",amp:"&",AMP:"&",andand:"",And:"",and:"",andd:"",andslope:"",andv:"",ang:"",ange:"",angle:"",angmsdaa:"",angmsdab:"",angmsdac:"",angmsdad:"",angmsdae:"",angmsdaf:"",angmsdag:"",angmsdah:"",angmsd:"",angrt:"",angrtvb:"",angrtvbd:"",angsph:"",angst:"",angzarr:"",Aogon:"",aogon:"",Aopf:"",aopf:"",apacir:"",ap:"",apE:"",ape:"",apid:"",apos:"",ApplyFunction:"",approx:"",approxeq:"",Aring:"",aring:"",Ascr:"",ascr:"",Assign:"",ast:"*",asymp:"",asympeq:"",Atilde:"",atilde:"",Auml:"",auml:"",awconint:"",awint:"",backcong:"",backepsilon:"",backprime:"",backsim:"",backsimeq:"",Backslash:"",Barv:"",barvee:"",barwed:"",Barwed:"",barwedge:"",bbrk:"",bbrktbrk:"",bcong:"",Bcy:"",bcy:"",bdquo:"",becaus:"",because:"",Because:"",bemptyv:"",bepsi:"",bernou:"",Bernoullis:"",Beta:"",beta:"",beth:"",between:"",Bfr:"",bfr:"",bigcap:"",bigcirc:"",bigcup:"",bigodot:"",bigoplus:"",bigotimes:"",bigsqcup:"",bigstar:"",bigtriangledown:"",bigtriangleup:"",biguplus:"",bigvee:"",bigwedge:"",bkarow:"",blacklozenge:"",blacksquare:"",blacktriangle:"",blacktriangledown:"",blacktriangleleft:"",blacktriangleright:"",blank:"",blk12:"",blk14:"",blk34:"",block:"",bne:"=",bnequiv:"",bNot:"",bnot:"",Bopf:"",bopf:"",bot:"",bottom:"",bowtie:"",boxbox:"",boxdl:"",boxdL:"",boxDl:"",boxDL:"",boxdr:"",boxdR:"",boxDr:"",boxDR:"",boxh:"",boxH:"",boxhd:"",boxHd:"",boxhD:"",boxHD:"",boxhu:"",boxHu:"",boxhU:"",boxHU:"",boxminus:"",boxplus:"",boxtimes:"",boxul:"",boxuL:"",boxUl:"",boxUL:"",boxur:"",boxuR:"",boxUr:"",boxUR:"",boxv:"",boxV:"",boxvh:"",boxvH:"",boxVh:"",boxVH:"",boxvl:"",boxvL:"",boxVl:"",boxVL:"",boxvr:"",boxvR:"",boxVr:"",boxVR:"",bprime:"",breve:"",Breve:"",brvbar:"",bscr:"",Bscr:"",bsemi:"",bsim:"",bsime:"",bsolb:"",bsol:"\\",bsolhsub:"",bull:"",bullet:"",bump:"",bumpE:"",bumpe:"",Bumpeq:"",bumpeq:"",Cacute:"",cacute:"",capand:"",capbrcup:"",capcap:"",cap:"",Cap:"",capcup:"",capdot:"",CapitalDifferentialD:"",caps:"",caret:"",caron:"",Cayleys:"",ccaps:"",Ccaron:"",ccaron:"",Ccedil:"",ccedil:"",Ccirc:"",ccirc:"",Cconint:"",ccups:"",ccupssm:"",Cdot:"",cdot:"",cedil:"",Cedilla:"",cemptyv:"",cent:"",centerdot:"",CenterDot:"",cfr:"",Cfr:"",CHcy:"",chcy:"",check:"",checkmark:"",Chi:"",chi:"",circ:"",circeq:"",circlearrowleft:"",circlearrowright:"",circledast:"",circledcirc:"",circleddash:"",CircleDot:"",circledR:"",circledS:"",CircleMinus:"",CirclePlus:"",CircleTimes:"",cir:"",cirE:"",cire:"",cirfnint:"",cirmid:"",cirscir:"",ClockwiseContourIntegral:"",CloseCurlyDoubleQuote:"",CloseCurlyQuote:"",clubs:"",clubsuit:"",colon:":",Colon:"",Colone:"",colone:"",coloneq:"",comma:",",commat:"@",comp:"",compfn:"",complement:"",complexes:"",cong:"",congdot:"",Congruent:"",conint:"",Conint:"",ContourIntegral:"",copf:"",Copf:"",coprod:"",Coproduct:"",copy:"",COPY:"",copysr:"",CounterClockwiseContourIntegral:"",crarr:"",cross:"",Cross:"",Cscr:"",cscr:"",csub:"",csube:"",csup:"",csupe:"",ctdot:"",cudarrl:"",cudarrr:"",cuepr:"",cuesc:"",cularr:"",cularrp:"",cupbrcap:"",cupcap:"",CupCap:"",cup:"",Cup:"",cupcup:"",cupdot:"",cupor:"",cups:"",curarr:"",curarrm:"",curlyeqprec:"",curlyeqsucc:"",curlyvee:"",curlywedge:"",curren:"",curvearrowleft:"",curvearrowright:"",cuvee:"",cuwed:"",cwconint:"",cwint:"",cylcty:"",dagger:"",Dagger:"",daleth:"",darr:"",Darr:"",dArr:"",dash:"",Dashv:"",dashv:"",dbkarow:"",dblac:"",Dcaron:"",dcaron:"",Dcy:"",dcy:"",ddagger:"",ddarr:"",DD:"",dd:"",DDotrahd:"",ddotseq:"",deg:"",Del:"",Delta:"",delta:"",demptyv:"",dfisht:"",Dfr:"",dfr:"",dHar:"",dharl:"",dharr:"",DiacriticalAcute:"",DiacriticalDot:"",DiacriticalDoubleAcute:"",DiacriticalGrave:"`",DiacriticalTilde:"",diam:"",diamond:"",Diamond:"",diamondsuit:"",diams:"",die:"",DifferentialD:"",digamma:"",disin:"",div:"",divide:"",divideontimes:"",divonx:"",DJcy:"",djcy:"",dlcorn:"",dlcrop:"",dollar:"$",Dopf:"",dopf:"",Dot:"",dot:"",DotDot:"",doteq:"",doteqdot:"",DotEqual:"",dotminus:"",dotplus:"",dotsquare:"",doublebarwedge:"",DoubleContourIntegral:"",DoubleDot:"",DoubleDownArrow:"",DoubleLeftArrow:"",DoubleLeftRightArrow:"",DoubleLeftTee:"",DoubleLongLeftArrow:"",DoubleLongLeftRightArrow:"",DoubleLongRightArrow:"",DoubleRightArrow:"",DoubleRightTee:"",DoubleUpArrow:"",DoubleUpDownArrow:"",DoubleVerticalBar:"",DownArrowBar:"",downarrow:"",DownArrow:"",Downarrow:"",DownArrowUpArrow:"",DownBreve:"",downdownarrows:"",downharpoonleft:"",downharpoonright:"",DownLeftRightVector:"",DownLeftTeeVector:"",DownLeftVectorBar:"",DownLeftVector:"",DownRightTeeVector:"",DownRightVectorBar:"",DownRightVector:"",DownTeeArrow:"",DownTee:"",drbkarow:"",drcorn:"",drcrop:"",Dscr:"",dscr:"",DScy:"",dscy:"",dsol:"",Dstrok:"",dstrok:"",dtdot:"",dtri:"

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uplus:"",xutri:"",xvee:"",xwedge:"",Yacute:"",yacute:"",YAcy:"",yacy:"",Ycirc:"",ycirc:"",Ycy:"",ycy:"",yen:"",Yfr:
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e:"",uacute:"",Ucirc:"",ucirc:"",Ugrave:"",ugrave:"",uml:"",Uuml:"",uuml:"",Yacute:"",yacute:"",yen:"",yuml:""}},{
}],27:[function(e,t,n){t.exports={amp:"&",apos:"",gt:">",lt:"<",quot:""}},{}],28:[function(e,t,n){function
r(){this._events=this._events||{},this._maxListeners=this._maxListeners||void 0}function
i(e){return"function"==typeof e}function a(e){return"number"==typeof e}function o(e){return"object"==typeof
e&&null!==e}function s(e){return void 0===e}t.exports=r,r.EventEmitter=r,r.prototype._events=void
0,r.prototype._maxListeners=void
0,r.defaultMaxListeners=10,r.prototype.setMaxListeners=function(e){if(!a(e)||e<0||isNaN(e))throw TypeError("n
must be a positive number");return this._maxListeners=e,this},r.prototype.emit=function(e){var
t,n,r,a,l,u;if(this._events||(this._events={}),"error"===e&&(!this._events.error||o(this._events.error)&&!this._events.
error.length)){if(t=arguments[1],t instanceof Error)throw t;var c=new Error('Uncaught, unspecified "error" event.
('+t+")");throw c.context=t,c}if(n=this._events[e],s(n))return!1;if(i(n))switch(arguments.length){case
1:n.call(this);break;case 2:n.call(this,arguments[1]);break;case
3:n.call(this,arguments[1],arguments[2]);break;default:a=Array.prototype.slice.call(arguments,1),n.apply(this,a)}els
e
if(o(n))for(a=Array.prototype.slice.call(arguments,1),u=n.slice(),r=u.length,l=0;l<r;l++)u[l].apply(this,a);return!0},r.
prototype.addListener=function(e,t){var n;if(!i(t))throw TypeError("listener must be a function");return
this._events||(this._events={}),this._events.newListener&&this.emit("newListener",e,i(t.listener)?t.listener:t),this._e
vents[e]?o(this._events[e])?this._events[e].push(t):this._events[e]=[this._events[e],t]:this._events[e]=t,o(this._events
[e])&&!this._events[e].warned&&(n=s(this._maxListeners)?r.defaultMaxListeners:this._maxListeners,n&&n>0&&
this._events[e].length>n&&(this._events[e].warned=!0,console.error("(node) warning: possible EventEmitter
memory leak detected. %d listeners added. Use emitter.setMaxListeners() to increase
limit.",this._events[e].length),"function"==typeof
console.trace&&console.trace())),this},r.prototype.on=r.prototype.addListener,r.prototype.once=function(e,t){functi
on n(){this.removeListener(e,n),r||(r=!0,t.apply(this,arguments))}if(!i(t))throw TypeError("listener must be a
function");var r=!1;return n.listener=t,this.on(e,n),this},r.prototype.removeListener=function(e,t){var
n,r,a,s;if(!i(t))throw TypeError("listener must be a function");if(!this._events||!this._events[e])return
this;if(n=this._events[e],a=n.length,r=-1,n===t||i(n.listener)&&n.listener===t)delete
this._events[e],this._events.removeListener&&this.emit("removeListener",e,t);else if(o(n)){for(s=a;s--
>0;)if(n[s]===t||n[s].listener&&n[s].listener===t){r=s;break}if(r<0)return this;1===n.length?(n.length=0,delete
this._events[e]):n.splice(r,1),this._events.removeListener&&this.emit("removeListener",e,t)}return
this},r.prototype.removeAllListeners=function(e){var t,n;if(!this._events)return

this;if(!this._events.removeListener)return 0===arguments.length?this._events={}:this._events[e]&&delete this._events[e],this;if(0===arguments.length){for(t in this._events)"removeListener"!==t&&this.removeAllListeners(t);return this.removeAllListeners("removeListener"),this._events={},this}if(n=this._events[e],i(n))this.removeListener(e,n);else if(n)for(;n.length;)this.removeListener(e,n[n.length-1]);return delete this._events[e],this},r.prototype.listeners=function(e){var t;return t=this._events&&this._events[e]?i(this._events[e])?[this._events[e]]:this._events[e].slice():[]},r.prototype.listenerCount=function(e){if(this._events){var t=this._events[e];if(i(t))return 1;if(t)return t.length}return 0},r.listenerCount=function(e,t){return e.listenerCount(t)}},{}],29:[function(e,t,n){function r(e){this._cbs=e||{},this.events=[]}t.exports=r;var i=e("./").EVENTS;Object.keys(i).forEach(function(e){if(0===i[e])e="on"+e,r.prototype[e]=function(){this.events.push([e]),this._cbs[e]&&this._cbs[e]()};else if(1===i[e])e="on"+e,r.prototype[e]=function(t){this.events.push([e,t]),this._cbs[e]&&this._cbs[e](t)};else{if(2!==i[e])throw Error("wrong number of arguments");e="on"+e,r.prototype[e]=function(t,n){this.events.push([e,t,n]),this._cbs[e]&&this._cbs[e](t,n)}}}),r.prototype.onreset=function(){this.events=[],this._cbs.onreset&&this._cbs.onreset()},r.prototype.restart=function(){this._cbs.onreset&&this._cbs.onreset();for(var e=0,t=this.events.length;e<t;e++)if(this._cbs[this.events[e][0]]){var n=this.events[e].length;1===n?this._cbs[this.events[e][0]]():2===n?this._cbs[this.events[e][0]](this.events[e][1]):this._cbs[this.events[e][0]](this.events[e][1],this.events[e][2])}},{"./":36}],30:[function(e,t,n){function r(e,t){this.init(e,t)}function i(e,t){return c.getElementsByTagName(e,t,!0)}function a(e,t){return c.getElementsByTagName(e,t,!0,1)[0]}function o(e,t,n){return c.getText(c.getElementsByTagName(e,t,n,1)).trim()}function s(e,t,n,r,i){var a=o(n,r,i);a&&(e[t]=a)}var l=e("./index.js"),u=l.DomHandler,c=l.DomUtils;e("inherits")(r,u),r.prototype.init=u;var p=function(e){return"rss"===e||"feed"===e||"rdf:RDF"===e};r.prototype.onend=function(){var e,t,n={},r=a(p,this.dom);r&&("feed"===r.name?(t=r.children,n.type="atom",s(n,"id","id",t),s(n,"title","title",t),(e=a("link",t))&&(e=e.attribs)&&(e=e.href)&&(n.link=e),s(n,"description","subtitle",t),(e=o("updated",t))&&(n.updated=new Date(e)),s(n,"author","email",t,!0),n.items=i("entry",t).map(function(e){var t,n={};return e=e.children,s(n,"id","id",e),s(n,"title","title",e),(t=a("link",e))&&(t=t.attribs)&&(t=t.href)&&(n.link=t),(t=o("summary",e)||o("content",e))&&(n.description=t),(t=o("updated",e))&&(n.pubDate=new Date(t)),n})):(t=a("channel",r.children).children,n.type=r.name.substr(0,3),n.id="",s(n,"title","title",t),s(n,"link","link",t),s(n,"description","description",t),(e=o("lastBuildDate",t))&&(n.updated=new Date(e)),s(n,"author","managingEditor",t,!0),n.items=i("item",r.children).map(function(e){var t,n={};return e=e.children,s(n,"id","guid",e),s(n,"title","title",e),s(n,"link","link",e),s(n,"description","description",e),(t=o("pubDate",e))&&(n.pubDate=new Date(t)),n}))),this.dom=n,u.prototype._handleCallback.call(this,r?null:Error("couldn't find root of feed"))},t.exports=r},{"./index.js":36,inherits:38}],31:[function(e,t,n){function r(e,t){this._options=t||{},this._cbs=e||{},this._tagname="",this._attribname="",this._attribvalue="",this._attribs=null,this._stack=[],this.startIndex=0,this.endIndex=null,this._lowerCaseTagNames="lowerCaseTags"in this._options?!!this._options.lowerCaseTags:!this._options.xmlMode,this._lowerCaseAttributeNames="lowerCaseAttributeNames"in this._options?!!this._options.lowerCaseAttributeNames:!this._options.xmlMode,this._options.Tokenizer&&(i=this._options.Tokenizer),this._tokenizer=new i(this._options,this),this._cbs.onparserinit&&this._cbs.onparserinit(this)}var i=e("./Tokenizer.js"),a={input:!0,option:!0,optgroup:!0,select:!0,button:!0,datalist:!0,textarea:!0},o={tr:{tr:!0,th:!0,td:!0},th:{th:!0},td:{thead:!0,th:!0,td:!0},body:{head:!0,link:!0,script:!0},li:{li:!0},p:{p:!0},h1:{p:!0},h2:{p:!0},h3:{p:!0},h4:{p:!0},h5:{p:!0},h6:{p:!0},select:a,input:a,output:a,button:a,datalist:a,textarea:a,option:{option:!0},optgroup:{optgroup:!0}},s={__proto__:null,area:!0,base:!0,basefont:!0,br:!0,col:!0,command:!0,embed:!0,frame:!0,hr:!0,img:!0,input:!0,isindex:!0,keygen:!0,link:!0,meta:!0,param:!0,source:!0,track:!0,wbr:!0,path:!0,circle:!0,ellipse:!0,line:

!0,rect:!0,use:!0,stop:!0,polyline:!0,polygon:!0},l=/\s|\//;e("inherits")(r,e("events").EventEmitter),r.prototype._updat
ePosition=function(e){null===this.endIndex?this._tokenizer._sectionStart<=e?this.startIndex=0:this.startIndex=this.
_tokenizer._sectionStart-
e:this.startIndex=this.endIndex+1,this.endIndex=this._tokenizer.getAbsoluteIndex()},r.prototype.ontext=function(e)
{this._updatePosition(1),this.endIndex--
,this._cbs.ontext&&this._cbs.ontext(e)},r.prototype.onopentagname=function(e){if(this._lowerCaseTagNames&&(e
=e.toLowerCase()),this._tagname=e,!this._options.xmlMode&&e
in o)for(var
t;(t=this._stack[this._stack.length-1])in o[e];this.onclosetag(t));!this._options.xmlMode&&e in
s||this._stack.push(e),this._cbs.onopentagname&&this._cbs.onopentagname(e),this._cbs.onopentag&&(this._attribs=
{})},r.prototype.onopentagend=function(){this._updatePosition(1),this._attribs&&(this._cbs.onopentag&&this._cbs.
onopentag(this._tagname,this._attribs),this._attribs=null),!this._options.xmlMode&&this._cbs.onclosetag&&this._ta
gname in
s&&this._cbs.onclosetag(this._tagname),this._tagname=""},r.prototype.onclosetag=function(e){if(this._updatePositi
on(1),this._lowerCaseTagNames&&(e=e.toLowerCase()),!this._stack.length||e in
s&&!this._options.xmlMode)this._options.xmlMode||"br"!==e&&"p"!==e||(this.onopentagname(e),this._closeCurre
ntTag());else{var t=this._stack.lastIndexOf(e);if(t!==-1)if(this._cbs.onclosetag)for(t=this._stack.length-t;t--
;)this._cbs.onclosetag(this._stack.pop());else
this._stack.length=t;else"p"!==e||this._options.xmlMode||(this.onopentagname(e),this._closeCurrentTag())}},r.prot
otype.onselfclosingtag=function(){this._options.xmlMode||this._options.recognizeSelfClosing?this._closeCurrentTag(
):this.onopentagend()},r.prototype._closeCurrentTag=function(){var
e=this._tagname;this.onopentagend(),this._stack[this._stack.length-
1]===e&&(this._cbs.onclosetag&&this._cbs.onclosetag(e),this._stack.pop())},r.prototype.onattribname=function(e)
{this._lowerCaseAttributeNames&&(e=e.toLowerCase()),this._attribname=e},r.prototype.onattribdata=function(e){
this._attribvalue+=e},r.prototype.onattribend=function(){this._cbs.onattribute&&this._cbs.onattribute(this._attribna
me,this._attribvalue),this._attribs&&!Object.prototype.hasOwnProperty.call(this._attribs,this._attribname)&&(this._
attribs[this._attribname]=this._attribvalue),this._attribname="",this._attribvalue=""},r.prototype._getInstructionNam
e=function(e){var t=e.search(l),n=t<0?e:e.substr(0,t);return
this._lowerCaseTagNames&&(n=n.toLowerCase()),n},r.prototype.ondeclaration=function(e){if(this._cbs.onprocess
inginstruction){var
t=this._getInstructionName(e);this._cbs.onprocessinginstruction("!"+t,"!"+e)}},r.prototype.onprocessinginstruction=
function(e){if(this._cbs.onprocessinginstruction){var
t=this._getInstructionName(e);this._cbs.onprocessinginstruction("?"+t,"?"+e)}},r.prototype.oncomment=function(e)
{this._updatePosition(4),this._cbs.oncomment&&this._cbs.oncomment(e),this._cbs.oncommentend&&this._cbs.onc
ommentend()},r.prototype.oncdata=function(e){this._updatePosition(1),this._options.xmlMode||this._options.recogn
izeCDATA?(this._cbs.oncdatastart&&this._cbs.oncdatastart(),this._cbs.ontext&&this._cbs.ontext(e),this._cbs.oncda
taend&&this._cbs.oncdataend()):this.oncomment("[CDATA["+e+"]]")},r.prototype.onerror=function(e){this._cbs.o
nerror&&this._cbs.onerror(e)},r.prototype.onend=function(){if(this._cbs.onclosetag)for(var
e=this._stack.length;e>0;this._cbs.onclosetag(this._stack[--
e]));this._cbs.onend&&this._cbs.onend()},r.prototype.reset=function(){this._cbs.onreset&&this._cbs.onreset(),this._
tokenizer.reset(),this._tagname="",this._attribname="",this._attribs=null,this._stack=[],this._cbs.onparserinit&&this.
_cbs.onparserinit(this)},r.prototype.parseComplete=function(e){this.reset(),this.end(e)},r.prototype.write=function(e
){this._tokenizer.write(e)},r.prototype.end=function(e){this._tokenizer.end(e)},r.prototype.pause=function(){this._t
okenizer.pause()},r.prototype.resume=function(){this._tokenizer.resume()},r.prototype.parseChunk=r.prototype.writ
e,r.prototype.done=r.prototype.end,t.exports=r},{"./Tokenizer.js":34,events:28,inherits:38}],32:[function(e,t,n){func
tion
r(e){this._cbs=e||{}}t.exports=r;var
i=e("./").EVENTS;Object.keys(i).forEach(function(e){if(0===i[e])e="on"+e,r.prototype[e]=function(){this._cbs[e]

&&this._cbs[e]()};else
if(1===i[e])e="on"+e,r.prototype[e]=function(t){this._cbs[e]&&this._cbs[e](t)};else{if(2!==i[e])throw
Error("wrong number of
arguments");e="on"+e,r.prototype[e]=function(t,n){this._cbs[e]&&this._cbs[e](t,n)}}})},{"./":36}],33:[function(e,t,
n){function
r(e){a.call(this,new i(this),e)}function i(e){this.scope=e}t.exports=r;var
a=e("./WritableStream.js");e("inherits")(r,a),r.prototype.readable=!0;var
o=e("../").EVENTS;Object.keys(o).forEach(function(e){if(0===o[e])i.prototype["on"+e]=function(){this.scope.emit
(e)};else if(1===o[e])i.prototype["on"+e]=function(t){this.scope.emit(e,t)};else{if(2!==o[e])throw Error("wrong
number of
arguments!");i.prototype["on"+e]=function(t,n){this.scope.emit(e,t,n)}}})},{"../":36,"./WritableStream.js":35,inherit
s:38}],34:[function(e,t,n){function r(e){return" "===e||"\n"===e||"\t"===e||"\f"===e||"\r"===e}function i(e,t){return
function(n){n===e&&(this._state=t)}}function a(e,t,n){var r=e.toLowerCase();return
e===r?function(e){e===r?this._state=t:(this._state=n,this._index--
)}:function(i){i===r||i===e?this._state=t:(this._state=n,this._index--)}}function o(e,t){var n=e.toLowerCase();return
function(r){r===n||r===e?this._state=t:(this._state=m,this._index--)}}function
s(e,t){this._state=f,this._buffer="",this._sectionStart=0,this._index=0,this._bufferOffset=0,this._baseState=f,this._sp
ecial=me,this._cbs=t,this._running=!0,this._ended=!1,this._xmlMode=!(!e||!e.xmlMode),this._decodeEntities=!(!e||!
e.decodeEntities)}t.exports=s;var
l=e("entities/lib/decode_codepoint.js"),u=e("entities/maps/entities.json"),c=e("entities/maps/legacy.json"),p=e("entit
ies/maps/xml.json"),h=0,f=h++,d=h++,m=h++,g=h++,y=h++,v=h++,b=h++,w=h++,_=h++,x=h++,A=h++,S=h++,j
=h++,E=h++,O=h++,k=h++,T=h++,C=h++,I=h++,D=h++,L=h++,M=h++,R=h++,U=h++,P=h++,q=h++,B=h++,N=
h++,z=h++,$=h++,F=h++,V=h++,H=h++,Y=h++,J=h++,W=h++,Q=h++,G=h++,K=h++,X=h++,Z=h++,ee=h++,te=
h++,ne=h++,re=h++,ie=h++,ae=h++,oe=h++,se=h++,le=h++,ue=h++,ce=h++,pe=h++,he=h++,fe=h++,de=0,me=de
++,ge=de++,ye=de++;s.prototype._stateText=function(e){"<"===e?(this._index>this._sectionStart&&this._cbs.onte
xt(this._getSection()),this._state=d,this._sectionStart=this._index):this._decodeEntities&&this._special===me&&"
&"===e&&(this._index>this._sectionStart&&this._cbs.ontext(this._getSection()),this._baseState=f,this._state=ue,th
is._sectionStart=this._index)},s.prototype._stateBeforeTagName=function(e){"/"===e?this._state=y:"<"===e?(this.
_cbs.ontext(this._getSection()),this._sectionStart=this._index):">"===e||this._special!==me||r(e)?this._state=f:"!"==
=e?(this._state=O,this._sectionStart=this._index+1):"?"===e?(this._state=T,this._sectionStart=this._index+1):(this._
state=this._xmlMode||"s"!==e&&"S"!==e?m:F,this._sectionStart=this._index)},s.prototype._stateInTagName=funct
ion(e){("/"===e||">"===e||r(e))&&(this._emitToken("onopentagname"),this._state=w,this._index--
)},s.prototype._stateBeforeCloseingTagName=function(e){r(e)||(">"===e?this._state=f:this._special!==me?"s"===e
||"S"===e?this._state=V:(this._state=f,this._index--
):(this._state=v,this._sectionStart=this._index))},s.prototype._stateInCloseingTagName=function(e){(">"===e||r(e))
&&(this._emitToken("onclosetag"),this._state=b,this._index--
)},s.prototype._stateAfterCloseingTagName=function(e){">"===e&&(this._state=f,this._sectionStart=this._index+1
)},s.prototype._stateBeforeAttributeName=function(e){">"===e?(this._cbs.onopentagend(),this._state=f,this._sectio
nStart=this._index+1):"/"===e?this._state=g:r(e)||(this._state=_,this._sectionStart=this._index)},s.prototype._stateIn
SelfClosingTag=function(e){">"===e?(this._cbs.onselfclosingtag(),this._state=f,this._sectionStart=this._index+1):r(
e)||(this._state=w,this._index--
)},s.prototype._stateInAttributeName=function(e){("="===e||"/"===e||">"===e||r(e))&&(this._cbs.onattribname(this
._getSection()),this._sectionStart=-1,this._state=x,this._index--
)},s.prototype._stateAfterAttributeName=function(e){"="===e?this._state=A:"/"===e||">"===e?(this._cbs.onattribe
nd(),this._state=w,this._index--
):r(e)||(this._cbs.onattribend(),this._state=_,this._sectionStart=this._index)},s.prototype._stateBeforeAttributeValue=
function(e){""===e?(this._state=S,this._sectionStart=this._index+1):"'"===e?(this._state=j,this._sectionStart=this._i
ndex+1):r(e)||(this._state=E,this._sectionStart=this._index,this._index--

)}},s.prototype._stateInAttributeValueDoubleQuotes=function(e){""===e?(this._emitToken("onattribdata"),this._cbs.onattribend(),this._state=w):this._decodeEntities&&"&"===e&&(this._emitToken("onattribdata"),this._baseState=this._state,this._state=ue,this._sectionStart=this._index)},s.prototype._stateInAttributeValueSingleQuotes=function(e){"'"===e?(this._emitToken("onattribdata"),this._cbs.onattribend(),this._state=w):this._decodeEntities&&"&"===e&&(this._emitToken("onattribdata"),this._baseState=this._state,this._state=ue,this._sectionStart=this._index)},s.prototype._stateInAttributeValueNoQuotes=function(e){r(e)||">"===e?(this._emitToken("onattribdata"),this._cbs.onattribend(),this._state=w,this._index--
):this._decodeEntities&&"&"===e&&(this._emitToken("onattribdata"),this._baseState=this._state,this._state=ue,this._sectionStart=this._index)},s.prototype._stateBeforeDeclaration=function(e){this._state="["===e?M:"-
"===e?C:k},s.prototype._stateInDeclaration=function(e){">"===e&&(this._cbs.ondeclaration(this._getSection()),this._state=f,this._sectionStart=this._index+1)},s.prototype._stateInProcessingInstruction=function(e){">"===e&&(this._cbs.onprocessinginstruction(this._getSection()),this._state=f,this._sectionStart=this._index+1)},s.prototype._stateBeforeComment=function(e){"-
"===e?(this._state=I,this._sectionStart=this._index+1):this._state=k},s.prototype._stateInComment=function(e){"-
"===e&&(this._state=D)},s.prototype._stateAfterComment1=function(e){"-
"===e?this._state=L:this._state=I},s.prototype._stateAfterComment2=function(e){">"===e?(this._cbs.oncomment(this._buffer.substring(this._sectionStart,this._index-2)),this._state=f,this._sectionStart=this._index+1):"-
"!==e&&(this._state=I)},s.prototype._stateBeforeCdata1=a("C",R,k),s.prototype._stateBeforeCdata2=a("D",U,k),s.prototype._stateBeforeCdata3=a("A",P,k),s.prototype._stateBeforeCdata4=a("T",q,k),s.prototype._stateBeforeCdata5=a("A",B,k),s.prototype._stateBeforeCdata6=function(e){"["===e?(this._state=N,this._sectionStart=this._index+1):(this._state=k,this._index--
)},s.prototype._stateInCdata=function(e){"]"===e&&(this._state=z)},s.prototype._stateAfterCdata1=i("]",$),s.prototype._stateAfterCdata2=function(e){">"===e?(this._cbs.oncdata(this._buffer.substring(this._sectionStart,this._index-2)),this._state=f,this._sectionStart=this._index+1):"]"!==e&&(this._state=N)},s.prototype._stateBeforeSpecial=function(e){"c"===e||"C"===e?this._state=H:"t"===e||"T"===e?this._state=te:(this._state=m,this._index--
)},s.prototype._stateBeforeSpecialEnd=function(e){this._special!==ge||"c"!==e&&"C"!==e?this._special!==ye||"t"!==e&&"T"!==e?this._state=f:this._state=ae:this._state=G},s.prototype._stateBeforeScript1=o("R",Y),s.prototype._stateBeforeScript2=o("I",J),s.prototype._stateBeforeScript3=o("P",W),s.prototype._stateBeforeScript4=o("T",Q),s.prototype._stateBeforeScript5=function(e){("/"===e||">"===e||r(e))&&(this._special=ge),this._state=m,this._index--
},s.prototype._stateAfterScript1=a("R",K,f),s.prototype._stateAfterScript2=a("I",X,f),s.prototype._stateAfterScript3=a("P",Z,f),s.prototype._stateAfterScript4=a("T",ee,f),s.prototype._stateAfterScript5=function(e){
">"===e||r(e)?(this._special=me,this._state=v,this._sectionStart=this._index-6,this._index--
):this._state=f},s.prototype._stateBeforeStyle1=o("Y",ne),s.prototype._stateBeforeStyle2=o("L",re),s.prototype._stateBeforeStyle3=o("E",ie),s.prototype._stateBeforeStyle4=function(e){("/"===e||">"===e||r(e))&&(this._special=ye),this._state=m,this._index--
},s.prototype._stateAfterStyle1=a("Y",oe,f),s.prototype._stateAfterStyle2=a("L",se,f),s.prototype._stateAfterStyle3=a("E",le,f),s.prototype._stateAfterStyle4=function(e){">"===e||r(e)?(this._special=me,this._state=v,this._sectionStart=this._index-5,this._index--
):this._state=f},s.prototype._stateBeforeEntity=a("#",ce,pe),s.prototype._stateBeforeNumericEntity=a("X",fe,he),s.prototype._parseNamedEntityStrict=function(){if(this._sectionStart+1<this._index){var
e=this._buffer.substring(this._sectionStart+1,this._index),t=this._xmlMode?p:u;t.hasOwnProperty(e)&&(this._emitPartial(t[e]),this._sectionStart=this._index+1)}},s.prototype._parseLegacyEntity=function(){var
e=this._sectionStart+1,t=this._index-e;for(t>6&&(t=6);t>=2;){var
n=this._buffer.substr(e,t);if(c.hasOwnProperty(n))return this._emitPartial(c[n]),void(this._sectionStart+=t+1);t--
}},s.prototype._stateInNamedEntity=function(e){";"===e?(this._parseNamedEntityStrict(),this._sectionStart+1<this._index&&!this._xmlMode&&this._parseLegacyEntity(),this._state=this._baseState):(e<"a"||e>"z")&&(e<"A"||e>"Z")&&(e<"0"||e>"9")&&(this._xmlMode||this._sectionStart+1===this._index||(this._baseState!==f?"="!==e&&this._parseNamedEntityStrict():this._parseLegacyEntity()),this._state=this._baseState,this._index--

)},s.prototype._decodeNumericEntity=function(e,t){var n=this._sectionStart+e;if(n!==this._index){var r=this._buffer.substring(n,this._index),i=parseInt(r,t);this._emitPartial(l(i)),this._sectionStart=this._index}else this._sectionStart--;this._state=this._baseState},s.prototype._stateInNumericEntity=function(e){";"===e?(this._decodeNumericEntity(2,10),this._sectionStart++):(e<"0"||e>"9")&&(this._xmlMode?this._state=this._baseState:this._decodeNumericEntity(2,10),this._index--)},s.prototype._stateInHexEntity=function(e){";"===e?(this._decodeNumericEntity(3,16),this._sectionStart++):(e<"a"||e>"f")&&(e<"A"||e>"F")&&(e<"0"||e>"9")&&(this._xmlMode?this._state=this._baseState:this._decodeNumericEntity(3,16),this._index--)},s.prototype._cleanup=function(){this._sectionStart<0?(this._buffer="",this._index=0,this._bufferOffset+=this._index):this._running&&(this._state===f?(this._sectionStart!==this._index&&this._cbs.ontext(this._buffer.substr(this._sectionStart)),this._buffer="",this._bufferOffset+=this._index,this._index=0):this._sectionStart===this._index?(this._buffer="",this._bufferOffset+=this._index,this._index=0):(this._buffer=this._buffer.substr(this._sectionStart),this._index-=this._sectionStart,this._bufferOffset+=this._sectionStart),this._sectionStart=0)},s.prototype.write=function(e){this._ended&&this._cbs.onerror(Error(".write() after done!")),this._buffer+=e,this._parse()},s.prototype._parse=function(){for(;this._index<this._buffer.length&&this._running;){var e=this._buffer.charAt(this._index);this._state===f?this._stateText(e):this._state===d?this._stateBeforeTagName(e):this._state===m?this._stateInTagName(e):this._state===y?this._stateBeforeCloseingTagName(e):this._state===v?this._stateInCloseingTagName(e):this._state===b?this._stateAfterCloseingTagName(e):this._state===g?this._stateInSelfClosingTag(e):this._state===w?this._stateBeforeAttributeName(e):this._state===_?this._stateInAttributeName(e):this._state===x?this._stateAfterAttributeName(e):this._state===A?this._stateBeforeAttributeValue(e):this._state===S?this._stateInAttributeValueDoubleQuotes(e):this._state===j?this._stateInAttributeValueSingleQuotes(e):this._state===E?this._stateInAttributeValueNoQuotes(e):this._state===O?this._stateBeforeDeclaration(e):this._state===k?this._stateInDeclaration(e):this._state===T?this._stateInProcessingInstruction(e):this._state===C?this._stateBeforeComment(e):this._state===I?this._stateInComment(e):this._state===D?this._stateAfterComment1(e):this._state===L?this._stateAfterComment2(e):this._state===M?this._stateBeforeCdata1(e):this._state===R?this._stateBeforeCdata2(e):this._state===U?this._stateBeforeCdata3(e):this._state===P?this._stateBeforeCdata4(e):this._state===q?this._stateBeforeCdata5(e):this._state===B?this._stateBeforeCdata6(e):this._state===N?this._stateInCdata(e):this._state===z?this._stateAfterCdata1(e):this._state===$?this._stateAfterCdata2(e):this._state===F?this._stateBeforeSpecial(e):this._state===V?this._stateBeforeSpecialEnd(e):this._state===H?this._stateBeforeScript1(e):this._state===Y?this._stateBeforeScript2(e):this._state===J?this._stateBeforeScript3(e):this._state===W?this._stateBeforeScript4(e):this._state===Q?this._stateBeforeScript5(e):this._state===G?this._stateAfterScript1(e):this._state===K?this._stateAfterScript2(e):this._state===X?this._stateAfterScript3(e):this._state===Z?this._stateAfterScript4(e):this._state===ee?this._stateAfterScript5(e):this._state===te?this._stateBeforeStyle1(e):this._state===ne?this._stateBeforeStyle2(e):this._state===re?this._stateBeforeStyle3(e):this._state===ie?this._stateBeforeStyle4(e):this._state===ae?this._stateAfterStyle1(e):this._state===oe?this._stateAfterStyle2(e):this._state===se?this._stateAfterStyle3(e):this._state===le?this._stateAfterStyle4(e):this._state===ue?this._stateBeforeEntity(e):this._state===ce?this._stateBeforeNumericEntity(e):this._state===pe?this._stateInNamedEntity(e):this._state===he?this._stateInNumericEntity(e):this._state===fe?this._stateInHexEntity(e):this._cbs.onerror(Error("unknown _state"),this._state),this._index++}this._cleanup()},s.prototype.pause=function(){this._running=!1},s.prototype.resume=function(){this._running=!0,this._index<this._buffer.length&&this._parse(),this._ended&&this._finish()},s.prototype.end=function(e){this._ended&&this._cbs.onerror(Error(".end() after done!")),e&&this.write(e),this._ended=!0,this._running&&this._finish()},s.prototype._finish=function(){this._sectionStart<this._index&&this._handleTrailingData(),this._cbs.onend()},s.prototype._handleTrailingData=function(){var

e=this._buffer.substr(this._sectionStart);this._state===N||this._state===z||this._state===$?this._cbs.oncdata(e):this._state===I||this._state===D||this._state===L?this._cbs.oncomment(e):this._state!==pe||this._xmlMode?this._state!==he||this._xmlMode?this._state!==fe||this._xmlMode?this._state!==m&&this._state!==w&&this._state!==A&&this._state!==x&&this._state!==_&&this._state!==j&&this._state!==S&&this._state!==E&&this._state!==v&&this._cbs.ontext(e):(this._decodeNumericEntity(3,16),this._sectionStart<this._index&&(this._state=this._baseState,this._handleTrailingData())):(this._decodeNumericEntity(2,10),this._sectionStart<this._index&&(this._state=this._baseState,this._handleTrailingData())):(this._parseLegacyEntity(),this._sectionStart<this._index&&(this._state=this._baseState,this._handleTrailingData()))},s.prototype.reset=function(){s.call(this,{xmlMode:this._xmlMode,decodeEntities:this._decodeEntities},this._cbs)},s.prototype.getAbsoluteIndex=function(){return this._bufferOffset+this._index},s.prototype._getSection=function(){return this._buffer.substring(this._sectionStart,this._index)},s.prototype._emitToken=function(e){this._cbs[e](this._getSection()),this._sectionStart=-1},s.prototype._emitPartial=function(e){this._baseState!==f?this._cbs.onattribdata(e):this._cbs.ontext(e)}},{"entities/lib/decode_codepoint.js":22,"entities/maps/entities.json":25,"entities/maps/legacy.json":26,"entities/maps/xml.json":27}],35:[function(e,t,n){function r(e,t){var n=this._parser=new i(e,t),r=this._decoder=new o;a.call(this,{decodeStrings:!1}),this.once("finish",function(){n.end(r.end())})}t.exports=r;var i=e("./Parser.js"),a=e("stream").Writable||e("readable-stream").Writable,o=e("string_decoder").StringDecoder,s=e("buffer").Buffer;e("inherits")(r,a),a.prototype._write=function(e,t,n){e instanceof s&&(e=this._decoder.write(e)),this._parser.write(e),n()}},{"./Parser.js":31,buffer:5,inherits:38,"readable-stream":3,stream:55,string_decoder:56}],36:[function(e,t,n){function r(e,n){return delete t.exports[e],t.exports[e]=n,n}var i=e("./Parser.js"),a=e("domhandler");t.exports={Parser:i,Tokenizer:e("./Tokenizer.js"),ElementType:e("domelementtype"),DomHandler:a,get FeedHandler(){return r("FeedHandler",e("./FeedHandler.js"))},get Stream(){return r("Stream",e("./Stream.js"))},get WritableStream(){return r("WritableStream",e("./WritableStream.js"))},get ProxyHandler(){return r("ProxyHandler",e("./ProxyHandler.js"))},get DomUtils(){return r("DomUtils",e("domutils"))},get CollectingHandler(){return r("CollectingHandler",e("./CollectingHandler.js"))},DefaultHandler:a,get RssHandler(){return r("RssHandler",this.FeedHandler)},parseDOM:function(e,t){var n=new a(t);return new i(n,t).end(e),n.dom},parseFeed:function(e,n){var r=new t.exports.FeedHandler(n);return new i(r,n).end(e),r.dom},createDomStream:function(e,t,n){var r=new a(e,t,n);return new i(r,t)},EVENTS:{attribute:2,cdatastart:0,cdataend:0,text:1,processinginstruction:2,comment:1,commentend:0,closetag:1,opentag:2,opentagname:1,error:1,end:0}}},{"./CollectingHandler.js":29,"./FeedHandler.js":30,"./Parser.js":31,"./ProxyHandler.js":32,"./Stream.js":33,"./Tokenizer.js":34,"./WritableStream.js":35,domelementtype:9,domhandler:10,domutils:13}],37:[function(e,t,n){n.read=function(e,t,n,r,i){var a,o,s=8*i-r-1,l=(1<<s)-1,u=l>>1,c=-7,p=n?i-1:0,h=n?-1:1,f=e[t+p];for(p+=h,a=f&(1<<-c)-1,f>>=-c,c+=s;c>0;a=256*a+e[t+p],p+=h,c-=8);for(o=a&(1<<-c)-1,a>>=-c,c+=r;c>0;o=256*o+e[t+p],p+=h,c-=8);if(0===a)a=1-u;else{if(a===l)return o?NaN:(f?-1:1)*(1/0);o+=Math.pow(2,r),a-=u}return(f?-1:1)*o*Math.pow(2,a-r)},n.write=function(e,t,n,r,i,a){var o,s,l,u=8*a-i-1,c=(1<<u)-1,p=c>>1,h=23===i?Math.pow(2,-24)-Math.pow(2,-77):0,f=r?0:a-1,d=r?1:-1,m=t<0||0===t&&1/t<0?1:0;for(t=Math.abs(t),isNaN(t)||t===1/0?(s=isNaN(t)?1:0,o=c):(o=Math.floor(Math.log(t)/Math.LN2),t*(l=Math.pow(2,-o))<1&&(o--,l*=2),t+=o+p>=1?h/l:h*Math.pow(2,1-p),t*l>=2&&(o++,l/=2),o+p>=c?(s=0,o=c):o+p>=1?(s=(t*l-1)*Math.pow(2,i),o+=p):(s=t*Math.pow(2,p-1)*Math.pow(2,i),o=0));i>=8;e[n+f]=255&s,f+=d,s/=256,i-=8);for(o=o<<i|s,u+=i;u>0;e[n+f]=255&o,f+=d,o/=256,u-=8);e[n+f-d]|=128*m}},{}],38:[function(e,t,n){"function"==typeof Object.create?t.exports=function(e,t){e.super_=t,e.prototype=Object.create(t.prototype,{constructor:{value:e,enumerable:!1,writable:!0,configurable:!0}})}:t.exports=function(e,t){e.super_=t;var n=function(){};n.prototype=t.prototype,e.prototype=new

n,e.prototype.constructor=e}},{}],39:[function(e,t,n){function r(e){return!!e.constructor&&"function"==typeof e.constructor.isBuffer&&e.constructor.isBuffer(e)}function i(e){return"function"==typeof e.readFloatLE&&"function"==typeof e.slice&&r(e.slice(0,0))}t.exports=function(e){return null!=e&&(r(e)||i(e)||!!e._isBuffer)}},{}],40:[function(e,t,n){var r={}.toString;t.exports=Array.isArray||function(e){return"[object Array]"==r.call(e)}},{}],41:[function(e,t,n){(function(e){"use strict";function n(t,n,r,i){if("function"!=typeof t)throw new TypeError('"callback" argument must be a function');var a,o,s=arguments.length;switch(s){case 0:case 1:return e.nextTick(t);case 2:return e.nextTick(function(){t.call(null,n)});case 3:return e.nextTick(function(){t.call(null,n,r)});case 4:return e.nextTick(function(){t.call(null,n,r,i)});default:for(a=new Array(s-1),o=0;o<a.length;)a[o++]=arguments[o];return e.nextTick(function(){t.apply(null,a)})}}!e.version||0===e.version.indexOf("v0.")||0===e.version.indexOf("v1.")&&0!==e.version.indexOf("v1.8.")?t.exports=n:t.exports=e.nextTick}).call(this,e("_process"))},{_process:42}],42:[function(e,t,n){function r(){throw new Error("setTimeout has not been defined")}function i(){throw new Error("clearTimeout has not been defined")}function a(e){if(p===setTimeout)return setTimeout(e,0);if((p===r||!p)&&setTimeout)return p=setTimeout,setTimeout(e,0);try{return p(e,0)}catch(t){try{return p.call(null,e,0)}catch(t){return p.call(this,e,0)}}}function o(e){if(h===clearTimeout)return clearTimeout(e);if((h===i||!h)&&clearTimeout)return h=clearTimeout,clearTimeout(e);try{return h(e)}catch(t){try{return h.call(null,e)}catch(t){return h.call(this,e)}}}function s(){g&&d&&(g=!1,d.length?m=d.concat(m):y=-1,m.length&&l())}function l(){if(!g){var e=a(s);g=!0;for(var t=m.length;t;){for(d=m,m=[];++y<t;)d&&d[y].run();y=-1,t=m.length}d=null,g=!1,o(e)}}function u(e,t){this.fun=e,this.array=t}function c(){}var p,h,f=t.exports={};!function(){try{p="function"==typeof setTimeout?setTimeout:r}catch(e){p=r}try{h="function"==typeof clearTimeout?clearTimeout:i}catch(e){h=i}}();var d,m=[],g=!1,y=-1;f.nextTick=function(e){var t=new Array(arguments.length-1);if(arguments.length>1)for(var n=1;n<arguments.length;n++)t[n-1]=arguments[n];m.push(new u(e,t)),1!==m.length||g||a(l)},u.prototype.run=function(){this.fun.apply(null,this.array)},f.title="browser",f.browser=!0,f.env={},f.argv=[],f.version="",f.versions={},f.on=c,f.addListener=c,f.once=c,f.off=c,f.removeListener=c,f.removeAllListeners=c,f.emit=c,f.binding=function(e){throw new Error("process.binding is not supported")},f.cwd=function(){return"/"},f.chdir=function(e){throw new Error("process.chdir is not supported")},f.umask=function(){return 0}},{}],43:[function(e,t,n){t.exports=e("./lib/_stream_duplex.js")},{"./lib/_stream_duplex.js":44}],44:[function(e,t,n){"use strict";function r(e){return this instanceof r?(u.call(this,e),c.call(this,e),e&&e.readable===!1&&(this.readable=!1),e&&e.writable===!1&&(this.writable=!1),this.allowHalfOpen=!0,e&&e.allowHalfOpen===!1&&(this.allowHalfOpen=!1),void this.once("end",i)):new r(e)}function i(){this.allowHalfOpen||this._writableState.ended||s(a,this)}function a(e){e.end()}var o=Object.keys||function(e){var t=[];for(var n in e)t.push(n);return t};t.exports=r;var s=e("process-nextick-args"),l=e("core-util-is");l.inherits=e("inherits");var u=e("./_stream_readable"),c=e("./_stream_writable");l.inherits(r,u);for(var p=o(c.prototype),h=0;h<p.length;h++){var f=p[h];r.prototype[f]||(r.prototype[f]=c.prototype[f])}},{"./_stream_readable":46,"./_stream_writable":48,"core-util-is":6,inherits:38,"process-nextick-args":41}],45:[function(e,t,n){"use strict";function r(e){return this instanceof r?void i.call(this,e):new r(e)}t.exports=r;var i=e("./_stream_transform"),a=e("core-util-is");a.inherits=e("inherits"),a.inherits(r,i),r.prototype._transform=function(e,t,n){n(null,e)}},{"./_stream_transform":47,"core-util-is":6,inherits:38}],46:[function(e,t,n){(function(n){"use strict";function r(e,t,n){return"function"==typeof e.prependListener?e.prependListener(t,n):void(e._events&&e._events[t]?C(e._events[t])?e._events[t].unshift(n):e._e

vents[t]=[n,e._events[t]]:e.on(t,n))}function
i(t,n){N=N||e("./_stream_duplex"),t=t||{},this.objectMode=!!t.objectMode,n instanceof
N&&(this.objectMode=this.objectMode||!!t.readableObjectMode);var
r=t.highWaterMark,i=this.objectMode?16:16384;this.highWaterMark=r||0===r?r:i,this.highWaterMark=~~this.high
WaterMark,this.buffer=new
B,this.length=0,this.pipes=null,this.pipesCount=0,this.flowing=null,this.ended=!1,this.endEmitted=!1,this.reading=!
1,this.sync=!0,this.needReadable=!1,this.emittedReadable=!1,this.readableListening=!1,this.resumeScheduled=!1,th
is.defaultEncoding=t.defaultEncoding||"utf8",this.ranOut=!1,this.awaitDrain=0,this.readingMore=!1,this.decoder=n
ull,this.encoding=null,t.encoding&&(q||(q=e("string_decoder/").StringDecoder),this.decoder=new
q(t.encoding),this.encoding=t.encoding)}function a(t){return N=N||e("./_stream_duplex"),this instanceof
a?(this._readableState=new i(t,this),this.readable=!0,t&&"function"==typeof t.read&&(this._read=t.read),void
I.call(this)):new
a(t)}function o(e,t,n,r,i){var a=c(t,n);if(a)e.emit("error",a);else if(null===n)t.reading=!1,p(e,t);else
if(t.objectMode||n&&n.length>0)if(t.ended&&!i){var o=new Error("stream.push() after
EOF");e.emit("error",o)}else if(t.endEmitted&&i){var l=new Error("stream.unshift() after end
event");e.emit("error",l)}else{var
u;!t.decoder||i||r||(n=t.decoder.write(n),u=!t.objectMode&&0===n.length),i||(t.reading=!1),u||(t.flowing&&0===t.len
gth&&!t.sync?(e.emit("data",n),e.read(0)):(t.length+=t.objectMode?1:n.length,i?t.buffer.unshift(n):t.buffer.push(n),t
.needReadable&&h(e))),d(e,t)}else i||(t.reading=!1);return s(t)}function
s(e){return!e.ended&&(e.needReadable||e.length<e.highWaterMark||0===e.length)}function l(e){return
e>=z?e=z:(e--,e|=e>>>1,e|=e>>>2,e|=e>>>4,e|=e>>>8,e|=e>>>16,e++),e}function u(e,t){return
e<=0||0===t.length&&t.ended?0:t.objectMode?1:e!==e?t.flowing&&t.length?t.buffer.head.data.length:t.length:(e>t.
highWaterMark&&(t.highWaterMark=l(e)),e<=t.length?e:t.ended?t.length:(t.needReadable=!0,0))}function
c(e,t){var n=null;return L.isBuffer(t)||"string"==typeof t||null===t||void 0===t||e.objectMode||(n=new
TypeError("Invalid non-string/buffer chunk")),n}function p(e,t){if(!t.ended){if(t.decoder){var
n=t.decoder.end();n&&n.length&&(t.buffer.push(n),t.length+=t.objectMode?1:n.length)}t.ended=!0,h(e)}}function
h(e){var
t=e._readableState;t.needReadable=!1,t.emittedReadable||(P("emitReadable",t.flowing),t.emittedReadable=!0,t.sync
?T(f,e):f(e))}function f(e){P("emit readable"),e.emit("readable"),w(e)}function
d(e,t){t.readingMore||(t.readingMore=!0,T(m,e,t))}function m(e,t){for(var
n=t.length;!t.reading&&!t.flowing&&!t.ended&&t.length<t.highWaterMark&&(P("maybeReadMore read
0"),e.read(0),n!==t.length);)n=t.length;t.readingMore=!1}function g(e){return function(){var
t=e._readableState;P("pipeOnDrain",t.awaitDrain),t.awaitDrain&&t.awaitDrain--
,0===t.awaitDrain&&D(e,"data")&&(t.flowing=!0,w(e))}}function y(e){P("readable nexttick read
0"),e.read(0)}function v(e,t){t.resumeScheduled||(t.resumeScheduled=!0,T(b,e,t))}function
b(e,t){t.reading||(P("resume read
0"),e.read(0)),t.resumeScheduled=!1,t.awaitDrain=0,e.emit("resume"),w(e),t.flowing&&!t.reading&&e.read(0)}func
tion w(e){var t=e._readableState;for(P("flow",t.flowing);t.flowing&&null!==e.read(););}function
_(e,t){if(0===t.length)return null;var n;return
t.objectMode?n=t.buffer.shift():!e||e>=t.length?(n=t.decoder?t.buffer.join(""):1===t.buffer.length?t.buffer.head.data:
t.buffer.concat(t.length),t.buffer.clear()):n=x(e,t.buffer,t.decoder),n}function x(e,t,n){var r;return
e<t.head.data.length?(r=t.head.data.slice(0,e),t.head.data=t.head.data.slice(e)):r=e===t.head.data.length?t.shift():n?A
(e,t):S(e,t),r}function A(e,t){var n=t.head,r=1,i=n.data;for(e-=i.length;n=n.next;){var
a=n.data,o=e>a.length?a.length:e;if(i+=o===a.length?a:a.slice(0,e),e-
=o,0===e){o===a.length?(++r,n.next?t.head=n.next:t.head=t.tail=null):(t.head=n,n.data=a.slice(o));break}++r}retur
n t.length-=r,i}function S(e,t){var n=M.allocUnsafe(e),r=t.head,i=1;for(r.data.copy(n),e-
=r.data.length;r=r.next;){var

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a=r.data,o=e>a.length?a.length:e;if(a.copy(n,n.length-e,0,o),e-
=o,0===e){o===a.length?(++i,r.next?t.head=r.next:t.head=t.tail=null):(t.head=r,r.data=a.slice(o));break}++i}return
t.length-=i,n}function j(e){var t=e._readableState;if(t.length>0)throw new Error('"endReadable()" called on non-
empty stream');t.endEmitted||(t.ended=!0,T(E,t,e))}function
E(e,t){e.endEmitted||0!==e.length||(e.endEmitted=!0,t.readable=!1,t.emit("end"))}function O(e,t){for(var
n=0,r=e.length;n<r;n++)t(e[n],n)}function k(e,t){for(var n=0,r=e.length;n<r;n++)if(e[n]===t)return n;return-
1}t.exports=a;var T=e("process-nextick-args"),C=e("isarray");a.ReadableState=i;var
I,D=(e("events").EventEmitter,function(e,t){return
e.listeners(t).length});!function(){try{I=e("stream")}catch(t){}finally{I||(I=e("events").EventEmitter)}}();var
L=e("buffer").Buffer,M=e("buffer-shims"),R=e("core-util-is");R.inherits=e("inherits");var U=e("util"),P=void
0;P=U&&U.debuglog?U.debuglog("stream"):function(){};var
q,B=e("./internal/streams/BufferList");R.inherits(a,I);var N,N;a.prototype.push=function(e,t){var
n=this._readableState;return n.objectMode||"string"!=typeof
e||(t=t||n.defaultEncoding,t!==n.encoding&&(e=M.from(e,t),t="")),o(this,n,e,t,!1)},a.prototype.unshift=function(e){
var t=this._readableState;return o(this,t,e,"",!0)},a.prototype.isPaused=function(){return
this._readableState.flowing===!1},a.prototype.setEncoding=function(t){return
q||(q=e("string_decoder/").StringDecoder),this._readableState.decoder=new
q(t),this._readableState.encoding=t,this};var
z=8388608;a.prototype.read=function(e){P("read",e),e=parseInt(e,10);var
t=this._readableState,n=e;if(0!==e&&(t.emittedReadable=!1),0===e&&t.needReadable&&(t.length>=t.highWater
Mark||t.ended))return P("read:
emitReadable",t.length,t.ended),0===t.length&&t.ended?j(this):h(this),null;if(e=u(e,t),0===e&&t.ended)return
0===t.length&&j(this),null;var r=t.needReadable;P("need readable",r),(0===t.length||t.length-
e<t.highWaterMark)&&(r=!0,P("length
less than watermark",r)),t.ended||t.reading?(r=!1,P("reading or ended",r)):r&&(P("do
read"),t.reading=!0,t.sync=!0,0===t.length&&(t.needReadable=!0),this._read(t.highWaterMark),t.sync=!1,t.reading|
|(e=u(n,t)));var i;return i=e>0?_(e,t):null,null===i?(t.needReadable=!0,e=0):t.length-
=e,0===t.length&&(t.ended||(t.needReadable=!0),n!==e&&t.ended&&j(this)),null!==i&&this.emit("data",i),i},a.pr
ototype._read=function(e){this.emit("error",new Error("not
implemented"))},a.prototype.pipe=function(e,t){function i(e){P("onunpipe"),e===h&&o()}function
a(){P("onend"),e.end()}function
o(){P("cleanup"),e.removeListener("close",u),e.removeListener("finish",c),e.removeListener("drain",y),e.removeLis
tener("error",l),e.removeListener("unpipe",i),h.removeListener("end",a),h.removeListener("end",o),h.removeListene
r("data",s),v=!0,!f.awaitDrain||e._writableState&&!e._writableState.needDrain||y()}function
s(t){P("ondata"),b=!1;var
n=e.write(t);!1!==n||b||((1===f.pipesCount&&f.pipes===e||f.pipesCount>1&&k(f.pipes,e)!==-1)&&!v&&(P("false
write response, pause",h._readableState.awaitDrain),h._readableState.awaitDrain++,b=!0),h.pause())}function
l(t){P("onerror",t),p(),e.removeListener("error",l),0===D(e,"error")&&e.emit("error",t)}function
u(){e.removeListener("finish",c),p()}function c(){P("onfinish"),e.removeListener("close",u),p()}function
p(){P("unpipe"),h.unpipe(e)}var h=this,f=this._readableState;switch(f.pipesCount){case 0:f.pipes=e;break;case
1:f.pipes=[f.pipes,e];break;default:f.pipes.push(e)}f.pipesCount+=1,P("pipe count=%d opts=%j",f.pipesCount,t);var
d=(!t||t.end!==!1)&&e!==n.stdout&&e!==n.stderr,m=d?a:o;f.endEmitted?T(m):h.once("end",m),e.on("unpipe",i);va
r y=g(h);e.on("drain",y);var v=!1,b=!1;return
h.on("data",s),r(e,"error",l),e.once("close",u),e.once("finish",c),e.emit("pipe",h),f.flowing||(P("pipe
resume"),h.resume()),e},a.prototype.unpipe=function(e){var t=this._readableState;if(0===t.pipesCount)return
this;if(1===t.pipesCount)return
e&&e!==t.pipes?this:(e||(e=t.pipes),t.pipes=null,t.pipesCount=0,t.flowing=!1,e&&e.emit("unpipe",this),this);if(!e){
var n=t.pipes,r=t.pipesCount;t.pipes=null,t.pipesCount=0,t.flowing=!1;for(var
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i=0;i<r;i++)n[i].emit("unpipe",this);return this}var a=k(t.pipes,e);return a===-1?this:(t.pipes.splice(a,1),t.pipesCount-=1,1===t.pipesCount&&(t.pipes=t.pipes[0]),e.emit("unpipe",this),this)},a.prototype.on=function(e,t){var n=I.prototype.on.call(this,e,t);if("data"===e)this._readableState.flowing!==!1&&this.resume();else if("readable"===e){var r=this._readableState;r.endEmitted||r.readableListening||(r.readableListening=r.needReadable=!0,r.emittedReadable=!1,r.reading?r.length&&h(this,r):T(y,this))}return n},a.prototype.addListener=a.prototype.on,a.prototype.resume=function(){var e=this._readableState;return e.flowing||(P("resume"),e.flowing=!0,v(this,e)),this},a.prototype.pause=function(){return P("call pause flowing=%j",this._readableState.flowing),!1!==this._readableState.flowing&&(P("pause"),this._readableState.flowing=!1,this.emit("pause")),this},a.prototype.wrap=function(e){var t=this._readableState,n=!1,r=this;e.on("end",function(){if(P("wrapped end"),t.decoder&&!t.ended){var e=t.decoder.end();e&&e.length&&r.push(e)}r.push(null)}),e.on("data",function(i){if(P("wrapped data"),t.decoder&&(i=t.decoder.write(i)),(!t.objectMode||null!==i&&void 0!==i)&&(t.objectMode||i&&i.length)){var a=r.push(i);a||(n=!0,e.pause())}});for(var i in e)void 0===this[i]&&"function"==typeof e[i]&&(this[i]=function(t){return function(){return e[t].apply(e,arguments)}}(i));var a=["error","close","destroy","pause","resume"];return O(a,function(t){e.on(t,r.emit.bind(r,t))}),r._read=function(t){P("wrapped _read",t),n&&(n=!1,e.resume())},r},a._fromList=_}).call(this,e("_process"))},{"./_stream_duplex":44,"./internal/streams/BufferList":49,_process:42,buffer:5,"buffer-shims":4,"core-util-is":6,events:28,inherits:38,isarray:40,"process-nextick-args":41,"string_decoder/":56,util:3}],47:[function(e,t,n){"use strict";function r(e){this.afterTransform=function(t,n){return i(e,t,n)},this.needTransform=!1,this.transforming=!1,this.writecb=null,this.writechunk=null,this.writeencoding=null}function i(e,t,n){var r=e._transformState;r.transforming=!1;var i=r.writecb;if(!i)return e.emit("error",new Error("no writecb in Transform class"));r.writechunk=null,r.writecb=null,null!==n&&void 0!==n&&e.push(n),i(t);var a=e._readableState;a.reading=!1,(a.needReadable||a.length<a.highWaterMark)&&e._read(a.highWaterMark)}function a(e){if(!(this instanceof a))return new a(e);s.call(this,e),this._transformState=new r(this);var t=this;this._readableState.needReadable=!0,this._readableState.sync=!1,e&&("function"==typeof e.transform&&(this._transform=e.transform),"function"==typeof e.flush&&(this._flush=e.flush)),this.once("prefinish",function(){"function"==typeof this._flush?this._flush(function(e){o(t,e)}):o(t)})}function o(e,t){if(t)return e.emit("error",t);var n=e._writableState,r=e._transformState;if(n.length)throw new Error("Calling transform done when ws.length != 0");if(r.transforming)throw new Error("Calling transform done when still transforming");return e.push(null)}t.exports=a;var s=e("./_stream_duplex"),l=e("core-util-is");l.inherits=e("inherits"),l.inherits(a,s),a.prototype.push=function(e,t){return this._transformState.needTransform=!1,s.prototype.push.call(this,e,t)},a.prototype._transform=function(e,t,n){throw new Error("Not implemented")},a.prototype._write=function(e,t,n){var r=this._transformState;if(r.writecb=n,r.writechunk=e,r.writeencoding=t,!r.transforming){var i=this._readableState;(r.needTransform||i.needReadable||i.length<i.highWaterMark)&&this._read(i.highWaterMark)}},a.prototype._read=function(e){var t=this._transformState;null!==t.writechunk&&t.writecb&&!t.transforming?(t.transforming=!0,this._transform(t.writechunk,t.writeencoding,t.afterTransform)):t.needTransform=!0}},{"./_stream_duplex":44,"core-util-is":6,inherits:38}],48:[function(e,t,n){(function(n){"use strict";function r(){}function i(e,t,n){this.chunk=e,this.encoding=t,this.callback=n,this.next=null}function a(t,n){C=C||e("./_stream_duplex"),t=t||{},this.objectMode=!!t.objectMode,n instanceof C&&(this.objectMode=this.objectMode||!!t.writableObjectMode);var r=t.highWaterMark,i=this.objectMode?16:16384;this.highWaterMark=r||0===r?r:i,this.highWaterMark=~~this.highWaterMark,this.needDrain=!1,this.ending=!1,this.ended=!1,this.finished=!1;var

a=t.decodeStrings===!1;this.decodeStrings=!a,this.defaultEncoding=t.defaultEncoding||"utf8",this.length=0,this.writing=!1,this.corked=0,this.sync=!0,this.bufferProcessing=!1,this.onwrite=function(e){d(n,e)},this.writecb=null,this.writelen=0,this.bufferedRequest=null,this.lastBufferedRequest=null,this.pendingcb=0,this.prefinished=!1,this.errorEmitted=!1,this.bufferedRequestCount=0,this.corkedRequestsFree=new x(this)}function o(t){return C=C||e("./_stream_duplex"),this instanceof o||this instanceof C?(this._writableState=new a(t,this),this.writable=!0,t&&("function"==typeof t.write&&(this._write=t.write),"function"==typeof t.writev&&(this._writev=t.writev)),void E.call(this)):new o(t)}function s(e,t){var n=new Error("write after end");e.emit("error",n),A(t,n)}function l(e,t,n,r){var i=!0,a=!1;return null===n?a=new TypeError("May not write null values to stream"):k.isBuffer(n)||"string"==typeof n||void 0===n||t.objectMode||(a=new TypeError("Invalid non-string/buffer chunk")),a&&(e.emit("error",a),A(r,a),i=!1),i}function u(e,t,n){return e.objectMode||e.decodeStrings===!1||"string"!=typeof t||(t=T.from(t,n)),t}function c(e,t,n,r,a){n=u(t,n,r),k.isBuffer(n)&&(r="buffer");var o=t.objectMode?1:n.length;t.length+=o;var s=t.length<t.highWaterMark;if(s||(t.needDrain=!0),t.writing||t.corked){var l=t.lastBufferedRequest;t.lastBufferedRequest=new i(n,r,a),l?l.next=t.lastBufferedRequest:t.bufferedRequest=t.lastBufferedRequest,t.bufferedRequestCount+=1}else p(e,t,!1,o,n,r,a);return s}function p(e,t,n,r,i,a,o){t.writelen=r,t.writecb=o,t.writing=!0,t.sync=!0,n?e._writev(i,t.onwrite):e._write(i,a,t.onwrite),t.sync=!1}function h(e,t,n,r,i){--t.pendingcb,n?A(i,r):i(r),e._writableState.errorEmitted=!0,e.emit("error",r)}function f(e){e.writing=!1,e.writecb=null,e.length-=e.writelen,e.writelen=0}function d(e,t){var n=e._writableState,r=n.sync,i=n.writecb;if(f(n),t)h(e,n,r,t,i);else{var a=v(n);a||n.corked||n.bufferProcessing||!n.bufferedRequest||y(e,n),r?S(m,e,n,a,i):m(e,n,a,i)}}function m(e,t,n,r){n||g(e,t),t.pendingcb--,r(),w(e,t)}function g(e,t){0===t.length&&t.needDrain&&(t.needDrain=!1,e.emit("drain"))}function y(e,t){t.bufferProcessing=!0;var n=t.bufferedRequest;if(e._writev&&n&&n.next){var r=t.bufferedRequestCount,i=new Array(r),a=t.corkedRequestsFree;a.entry=n;for(var o=0;n;)i[o]=n,n=n.next,o+=1;p(e,t,!0,t.length,i,"",a.finish),t.pendingcb++,t.lastBufferedRequest=null,a.next?(t.corkedRequestsFree=a.next,a.next=null):t.corkedRequestsFree=new x(t)}else{for(;n;){var s=n.chunk,l=n.encoding,u=n.callback,c=t.objectMode?1:s.length;if(p(e,t,!1,c,s,l,u),n=n.next,t.writing)break}null===n&&(t.lastBufferedRequest=null)}t.bufferedRequestCount=0,t.bufferedRequest=n,t.bufferProcessing=!1}function v(e){return e.ending&&0===e.length&&null===e.bufferedRequest&&!e.finished&&!e.writing}function b(e,t){t.prefinished||(t.prefinished=!0,e.emit("prefinish"))}function w(e,t){var n=v(t);return n&&(0===t.pendingcb?(b(e,t),t.finished=!0,e.emit("finish")):b(e,t)),n}function _(e,t,n){t.ending=!0,w(e,t),n&&(t.finished?A(n):e.once("finish",n)),t.ended=!0,e.writable=!1}function x(e){var t=this;this.next=null,this.entry=null,this.finish=function(n){var r=t.entry;for(t.entry=null;r;){var i=r.callback;e.pendingcb--,i(n),r=r.next}e.corkedRequestsFree?e.corkedRequestsFree.next=t:e.corkedRequestsFree=t}}t.exports=o;var A=e("process-nextick-args"),S=!n.browser&&["v0.10","v0.9."].indexOf(n.version.slice(0,5))>-1?setImmediate:A;o.WritableState=a;var j=e("core-util-is");j.inherits=e("inherits");var E,O={deprecate:e("util-deprecate")};!function(){try{E=e("stream")}catch(t){}finally{E||(E=e("events").EventEmitter)}}();var k=e("buffer").Buffer,T=e("buffer-shims");j.inherits(o,E);var C;a.prototype.getBuffer=function(){for(var e=this.bufferedRequest,t=[];e;)t.push(e),e=e.next;return t},function(){try{Object.defineProperty(a.prototype,"buffer",{get:O.deprecate(function(){return this.getBuffer()},"_writableState.buffer is deprecated. Use _writableState.getBuffer instead.")})}catch(e){}}();var C;o.prototype.pipe=function(){this.emit("error",new Error("Cannot pipe, not readable"))},o.prototype.write=function(e,t,n){var i=this._writableState,a=!1;return"function"==typeof t&&(n=t,t=null),k.isBuffer(e)?t="buffer":t||(t=i.defaultEncoding),"function"!=typeof

n&&(n=r),i.ended?s(this,n):l(this,i,e,n)&&(i.pendingcb++,a=c(this,i,e,t,n)),a},o.prototype.cork=function(){var e=this._writableState;e.corked++},o.prototype.uncork=function(){var e=this._writableState;e.corked&&(e.corked--,e.writing||e.corked||e.finished||e.bufferProcessing||!e.bufferedRequest||y(this,e))},o.prototype.setDefaultEncoding=function(e){if("string"==typeof e&&(e=e.toLowerCase()),!(["hex","utf8","utf-8","ascii","binary","base64","ucs2","ucs-2","utf16le","utf-16le","raw"].indexOf((e+"").toLowerCase())>-1))throw new TypeError("Unknown encoding: "+e);return this._writableState.defaultEncoding=e,this},o.prototype._write=function(e,t,n){n(new Error("not implemented"))},o.prototype._writev=null,o.prototype.end=function(e,t,n){var r=this._writableState;"function"==typeof e?(n=e,e=null,t=null):"function"==typeof t&&(n=t,t=null),null!==e&&void 0!==e&&this.write(e,t),r.corked&&(r.corked=1,this.uncork()),r.ending||r.finished||_(this,r,n)}).call(this,e("_process"))},{"./_stream_duplex":44,_process:42,buffer:5,"buffer-shims":4,"core-util-is":6,events:28,inherits:38,"process-nextick-args":41,"util-deprecate":57}],49:[function(e,t,n){"use strict";function r(){this.head=null,this.tail=null,this.length=0}var i=(e("buffer").Buffer,e("buffer-shims"));t.exports=r,r.prototype.push=function(e){var t={data:e,next:null};this.length>0?this.tail.next=t:this.head=t,this.tail=t,++this.length},r.prototype.unshift=function(e){var t={data:e,next:this.head};0===this.length&&(this.tail=t),this.head=t,++this.length},r.prototype.shift=function(){if(0!==this.length){var e=this.head.data;return 1===this.length?this.head=this.tail=null:this.head=this.head.next,--this.length,e}},r.prototype.clear=function(){this.head=this.tail=null,this.length=0},r.prototype.join=function(e){if(0===this.length)return"";for(var t=this.head,n=""+t.data;t=t.next;)n+=e+t.data;return n},r.prototype.concat=function(e){if(0===this.length)return i.alloc(0);if(1===this.length)return this.head.data;for(var t=i.allocUnsafe(e>>>0),n=this.head,r=0;n;)n.data.copy(t,r),r+=n.data.length,n=n.next;return t}},{buffer:5,"buffer-shims":4}],50:[function(e,t,n){t.exports=e("./lib/_stream_passthrough.js")},{"./lib/_stream_passthrough.js":45}],51:[function(e,t,n){(function(r){var i=function(){try{return e("stream")}catch(t){}}();n=t.exports=e("./lib/_stream_readable.js"),n.Stream=i||n,n.Readable=n,n.Writable=e("./lib/_stream_writable.js"),n.Duplex=e("./lib/_stream_duplex.js"),n.Transform=e("./lib/_stream_transform.js"),n.PassThrough=e("./lib/_stream_passthrough.js"),!r.browser&&"disable"===r.env.READABLE_STREAM&&i&&(t.exports=i)}).call(this,e("_process"))},{"./lib/_stream_duplex.js":44,"./lib/_stream_passthrough.js":45,"./lib/_stream_readable.js":46,"./lib/_stream_transform.js":47,"./lib/_stream_writable.js":48,_process:42}],52:[function(e,t,n){t.exports=e("./lib/_stream_transform.js")},{"./lib/_stream_transform.js":47}],53:[function(e,t,n){t.exports=e("./lib/_stream_writable.js")},{"./lib/_stream_writable.js":48}],54:[function(e,t,n){t.exports=function(e){return e.replace(/[-\\^$*+?.()|[\]{}]/g,"\\$&")}},{}],55:[function(e,t,n){function r(){i.call(this)}t.exports=r;var i=e("events").EventEmitter,a=e("inherits");a(r,i),r.Readable=e("readable-stream/readable.js"),r.Writable=e("readable-stream/writable.js"),r.Duplex=e("readable-stream/duplex.js"),r.Transform=e("readable-stream/transform.js"),r.PassThrough=e("readable-stream/passthrough.js"),r.Stream=r,r.prototype.pipe=function(e,t){function n(t){e.writable&&!1===e.write(t)&&u.pause&&u.pause()}function r(){u.readable&&u.resume&&u.resume()}function a(){c||(c=!0,e.end())}function o(){c||(c=!0,"function"==typeof e.destroy&&e.destroy())}function s(e){if(l(),0===i.listenerCount(this,"error"))throw e}function l(){u.removeListener("data",n),e.removeListener("drain",r),u.removeListener("end",a),u.removeListener("close",o),u.removeListener("error",s),e.removeListener("error",s),u.removeListener("end",l),u.removeListener("close",l),e.removeListener("close",l)}var u=this;u.on("data",n),e.on("drain",r),e._isStdio||t&&t.end===!1||(u.on("end",a),u.on("close",o));var c=!1;return u.on("error",s),e.on("error",s),u.on("end",l),u.on("close",l),e.on("close",l),e.emit("pipe",u),e}},{events:28,inherits:38,"readable-stream/duplex.js":43,"readable-stream/passthrough.js":50,"readable-stream/readable.js":51,"readable-stream/transform.js":52,"readable-stream/writable.js":53}],56:[function(e,t,n){function

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r(e){if(e&&!l(e))throw new Error("Unknown encoding: "+e)}function i(e){return
e.toString(this.encoding)}function
a(e){this.charReceived=e.length%2,this.charLength=this.charReceived?2:0}function
o(e){this.charReceived=e.length%3,this.charLength=this.charReceived?3:0}var
s=e("buffer").Buffer,l=s.isEncoding||function(e){switch(e&&e.toLowerCase()){case"hex":case"utf8":case"utf-
8":case"ascii":case"binary":case"base64":case"ucs2":case"ucs-2":case"utf16le":case"utf-
16le":case"raw":return!0;default:return!1}},u=n.StringDecoder=function(e){switch(this.encoding=(e||"utf8").toLow
erCase().replace(/[-
_]/,""),r(e),this.encoding){case"utf8":this.surrogateSize=3;break;case"ucs2":case"utf16le":this.surrogateSize=2,this.
detectIncompleteChar=a;break;case"base64":this.surrogateSize=3,this.detectIncompleteChar=o;break;default:return
void(this.write=i)}this.charBuffer=new
s(6),this.charReceived=0,this.charLength=0};u.prototype.write=function(e){for(var t="";this.charLength;){var
n=e.length>=this.charLength-this.charReceived?this.charLength-
this.charReceived:e.length;if(e.copy(this.charBuffer,this.charReceived,0,n),this.charReceived+=n,this.charReceived
<this.charLength)return"";e=e.slice(n,e.length),t=this.charBuffer.slice(0,this.charLength).toString(this.encoding);var
r=t.charCodeAt(t.length-
1);if(!(r>=55296&&r<=56319)){if(this.charReceived=this.charLength=0,0===e.length)return
t;break}this.charLength+=this.surrogateSize,t=""}this.detectIncompleteChar(e);var
i=e.length;this.charLength&&(e.copy(this.charBuffer,0,e.length-this.charReceived,i),i-
=this.charReceived),t+=e.toString(this.encoding,0,i);var i=t.length-
1,r=t.charCodeAt(i);if(r>=55296&&r<=56319){var a=this.surrogateSize;return
this.charLength+=a,this.charReceived+=a,this.charBuffer.copy(this.charBuffer,a,0,a),e.copy(this.charBuffer,0,0,a),t.
substring(0,i)}return
t},u.prototype.detectIncompleteChar=function(e){for(var t=e.length>=3?3:e.length;t>0;t--){var n=e[e.length-
t];if(1==t&&n>>5==6){this.charLength=2;break}if(t<=2&&n>>4==14){this.charLength=3;break}if(t<=3&&n>>3
==30){this.charLength=4;break}}this.charReceived=t},u.prototype.end=function(e){var
t="";if(e&&e.length&&(t=this.write(e)),this.charReceived){var
n=this.charReceived,r=this.charBuffer,i=this.encoding;t+=r.slice(0,n).toString(i)}return
t}},{buffer:5}],57:[function(e,t,n){(function(e){function n(e,t){function n(){if(!i){if(r("throwDeprecation"))throw
new Error(t);r("traceDeprecation")?console.trace(t):console.warn(t),i=!0}return
e.apply(this,arguments)}if(r("noDeprecation"))return e;var i=!1;return n}function
r(t){try{if(!e.localStorage)return!1}catch(n){return!1}var r=e.localStorage[t];return
null!=r&&"true"===String(r).toLowerCase()}t.exports=n}).call(this,"undefined"!=typeof
global?global:"undefined"!=typeof self?self:"undefined"!=typeof
window?window:{})},{}],58:[function(e,t,n){function
r(){for(var e={},t=0;t<arguments.length;t++){var n=arguments[t];for(var r in n)i.call(n,r)&&(e[r]=n[r])}return
e}t.exports=r;var i=Object.prototype.hasOwnProperty},{}]},{},[1])(1)}),function(e){if("object"==typeof
exports&&"undefined"!=typeof module)module.exports=e();else if("function"==typeof
define&&define.amd)define([],e);else{var t;t="undefined"!=typeof window?window:"undefined"!=typeof
global?global:"undefined"!=typeof self?self:this,t.SwaggerClient=e()}}(function(){var t;return function
n(e,t,r){function i(o,s){if(!t[o]){if(!e[o]){var l="function"==typeof require&&require;if(!s&&l)return
l(o,!0);if(a)return a(o,!0);var u=new Error("Cannot find module '"+o+"'");throw
u.code="MODULE_NOT_FOUND",u}var c=t[o]={exports:{}};e[o][0].call(c.exports,function(t){var
n=e[o][1][t];return i(n?n:t)},c,c.exports,n,e,t,r)}return t[o].exports}for(var a="function"==typeof
require&&require,o=0;o<r.length;o++)i(r[o]);return i}({1:[function(e,t,n){"use strict";var
r=e("./lib/auth"),i=e("./lib/helpers"),a=e("./lib/client"),o=function(e,t){return
i.log('This is deprecated, use "new SwaggerClient" instead.'),new
a(e,t)};Array.prototype.indexOf||(Array.prototype.indexOf=function(e,t){for(var
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n=t||0,r=this.length;n<r;n++)if(this[n]===e)return n;return-
1}),String.prototype.trim||(String.prototype.trim=function(){return
this.replace(/^\s+|\s+$/g,"")}),String.prototype.endsWith||(String.prototype.endsWith=function(e){return
this.indexOf(e,this.length-e.length)!==-
1}),t.exports=a,a.ApiKeyAuthorization=r.ApiKeyAuthorization,a.PasswordAuthorization=r.PasswordAuthorization,
a.CookieAuthorization=r.CookieAuthorization,a.SwaggerApi=o,a.SwaggerClient=o,a.SchemaMarkup=e("./lib/sche
ma-markup")},{"./lib/auth":2,"./lib/client":3,"./lib/helpers":4,"./lib/schema-markup":7}],2:[function(e,t,n){"use
strict";var r=e("./helpers"),i=e("btoa"),a=e("cookiejar").CookieJar,o={each:e("lodash-
compat/collection/each"),includes:e("lodash-compat/collection/includes"),isObject:e("lodash-
compat/lang/isObject"),isArray:e("lodash-
compat/lang/isArray")},s=t.exports.SwaggerAuthorizations=function(e){this.authz=e||{}};s.prototype.add=function(
e,t){if(o.isObject(e))for(var
n in e)this.authz[n]=e[n];else"string"==typeof e&&(this.authz[e]=t);return
t},s.prototype.remove=function(e){return delete this.authz[e]},s.prototype.apply=function(e,t){var
n=!0,r=!t,i=[],a=e.clientAuthorizations||this.authz;return o.each(t,function(e,t){"string"==typeof
t&&i.push(t),o.each(e,function(e,t){i.push(t)})}),o.each(a,function(t,a){if(r||o.includes(i,a)){var
s=t.apply(e);n=n&&!!s}}),n};var
l=t.exports.ApiKeyAuthorization=function(e,t,n){this.name=e,this.value=t,this.type=n};l.prototype.apply=function(
e){if("query"===this.type){var t;if(e.url.indexOf("?")>0){t=e.url.substring(e.url.indexOf("?")+1);var
n=t.split("&");if(n&&n.length>0)for(var r=0;r<n.length;r++){var
i=n[r].split("=");if(i&&i.length>0&&i[0]===this.name)return!1}}return
e.url.indexOf("?")>0?e.url=e.url+"&"+this.name+"="+this.value:e.url=e.url+"?"+this.name+"="+this.value,!0}if("h
eader"===this.type)return"undefined"==typeof
e.headers[this.name]&&(e.headers[this.name]=this.value),!0};var
u=t.exports.CookieAuthorization=function(e){this.cookie=e};u.prototype.apply=function(e){return
e.cookieJar=e.cookieJar||new a,e.cookieJar.setCookie(this.cookie),!0};var
c=t.exports.PasswordAuthorization=function(e,t){3===arguments.length&&(r.log("PasswordAuthorization: the
'name' argument has been removed, pass only username and
password"),e=arguments[1],t=arguments[2]),this.username=e,this.password=t};c.prototype.apply=function(e){retur
n"undefined"==typeof e.headers.Authorization&&(e.headers.Authorization="Basic
"+i(this.username+":"+this.password)),!0}},{"./helpers":4,btoa:13,cookiejar:18,"lodash-
compat/collection/each":52,"lodash-compat/collection/includes":55,"lodash-compat/lang/isArray":140,"lodash-
compat/lang/isObject":144}],3:[function(e,t,n){"use strict";var r={bind:e("lodash-
compat/function/bind"),cloneDeep:e("lodash-compat/lang/cloneDeep"),find:e("lodash-
compat/collection/find"),forEach:e("lodash-compat/collection/forEach"),indexOf:e("lodash-
compat/array/indexOf"),isArray:e("lodash-compat/lang/isArray"),isObject:e("lodash-
compat/lang/isObject"),isFunction:e("lodash-compat/lang/isFunction"),isPlainObject:e("lodash-
compat/lang/isPlainObject"),isUndefined:e("lodash-
compat/lang/isUndefined")},i=e("./auth"),a=e("./helpers"),o=e("./types/model"),s=e("./types/operation"),l=e("./types
/operationGroup"),u=e("./resolver"),c=e("./http"),p=e("./spec-
converter"),h=e("q"),f=["apis","authorizationScheme","authorizations","basePath","build","buildFrom1_1Spec","bu
ildFrom1_2Spec","buildFromSpec","clientAuthorizations","convertInfo","debug","defaultErrorCallback","defaultSu
ccessCallback","enableCookies","fail","failure","finish","help","host","idFromOp","info","initialize","isBuilt","isVa
lid","modelPropertyMacro","models","modelsArray","options","parameterMacro","parseUri","progress","resourceC
ount","sampleModels","selfReflect","setConsolidatedModels","spec","supportedSubmitMethods","swaggerRequest
Headers","tagFromLabel","title","url","useJQuery","jqueryAjaxCache"],d=["apis","asCurl","description","externalD
ocs","help","label","name","operation","operations","operationsArray","path","tag"],m=["delete","get","head","opti
ons","patch","post","put"],g=t.exports=function(e,t){return

this.authorizations=null,this.authorizationScheme=null,this.basePath=null,this.debug=!1,this.enableCookies=!1,this.info=null,this.isBuilt=!1,this.isValid=!1,this.modelsArray=[],this.resourceCount=0,this.url=null,this.useJQuery=!1,this.jqueryAjaxCache=!1,this.swaggerObject={},this.deferredClient=void 0,this.clientAuthorizations=new i.SwaggerAuthorizations,"undefined"!=typeof e?this.initialize(e,t):this};g.prototype.initialize=function(e,t){if(this.models={},this.sampleModels={},"string"==typeof e?this.url=e:r.isObject(e)&&(t=e,this.url=t.url),this.url&&this.url.indexOf("http:")===-1&&this.url.indexOf("https:")===-1&&"undefined"!=typeof window&&window&&window.location&&(this.url=window.location.origin+this.url),t=t||{},this.clientAuthorizations.add(t.authorizations),this.swaggerRequestHeaders=t.swaggerRequestHeaders||"application/json;charset=utf-8,*/*",this.defaultSuccessCallback=t.defaultSuccessCallback||null,this.defaultErrorCallback=t.defaultErrorCallback||null,this.modelPropertyMacro=t.modelPropertyMacro||null,this.connectionAgent=t.connectionAgent||null,this.parameterMacro=t.parameterMacro||null,this.usePromise=t.usePromise||null,this.timeout=t.timeout||null,this.fetchSpecTimeout="undefined"!=typeof t.fetchSpecTimeout?t.fetchSpecTimeout:t.timeout||null,this.usePromise&&(this.deferredClient=h.defer()),"function"==typeof t.success&&(this.success=t.success),t.useJQuery&&(this.useJQuery=t.useJQuery),t.jqueryAjaxCache&&(this.jqueryAjaxCache=t.jqueryAjaxCache),t.enableCookies&&(this.enableCookies=t.enableCookies),this.options=t||{},this.options.timeout=this.timeout,this.options.fetchSpecTimeout=this.fetchSpecTimeout,this.supportedSubmitMethods=t.supportedSubmitMethods||[],this.failure=t.failure||function(e){throw e},this.progress=t.progress||function(){},this.spec=r.cloneDeep(t.spec),t.scheme&&(this.scheme=t.scheme),this.usePromise||"function"==typeof t.success)return this.ready=!0,this.build()},g.prototype.build=function(e){if(this.isBuilt)return this;var t=this;this.spec?this.progress("fetching resource list; Please wait."):this.progress("fetching resource list: "+this.url+"; Please wait.");var n={useJQuery:this.useJQuery,jqueryAjaxCache:this.jqueryAjaxCache,connectionAgent:this.connectionAgent,url:this.url,method:"get",headers:{accept:this.swaggerRequestHeaders},on:{error:function(e){return"http"!==t.url.substring(0,4)?t.fail("Please specify the protocol for "+t.url):!e.errObj||"ECONNABORTED"!==e.errObj.code&&e.errObj.message.indexOf("timeout")===-1?0===e.status?t.fail("Can't read from server. It may not have the appropriate access-control-origin settings."):404===e.status?t.fail("Can't read swagger JSON from "+t.url):t.fail(e.status+" : "+e.statusText+" "+t.url):t.fail("Request timed out after "+t.fetchSpecTimeout+"ms")},response:function(e){var n=e.obj;if(!n)return t.fail("failed to parse JSON/YAML response");if(t.swaggerVersion=n.swaggerVersion,t.swaggerObject=n,n.swagger&&2===parseInt(n.swagger))t.swaggerVersion=n.swagger,(new u).resolve(n,t.url,t.buildFromSpec,t),t.isValid=!0;else{var r=new p;t.oldSwaggerObject=t.swaggerObject,r.setDocumentationLocation(t.url),r.convert(n,t.clientAuthorizations,t.options,function(e){t.swaggerObject=e,(new u).resolve(e,t.url,t.buildFromSpec,t),t.isValid=!0})}}};if(this.fetchSpecTimeout&&(n.timeout=this.fetchSpecTimeout),this.spec)t.swaggerObject=this.spec,setTimeout(function(){(new u).resolve(t.spec,t.url,t.buildFromSpec,t)},10);else{if(this.clientAuthorizations.apply(n),e)return n;(new c).execute(n,this.options)}return this.usePromise?this.deferredClient.promise:this},g.prototype.buildFromSpec=function(e){if(this.isBuilt)return this;this.apis={},this.apisArray=[],this.basePath=e.basePath||"",this.consumes=e.consumes,this.host=e.host||"",this.info=e.info||{},this.produces=e.produces,this.schemes=e.schemes||[],this.securityDefinitions=r.cloneDeep(e.securityDefinitions),this.security=e.security,this.title=e.title||"";var t,n,i,u,c={},p=this;if(e.externalDocs&&(this.externalDocs=e.externalDocs),this.authSchemes=this.securityDefinitions,this.securityDefinitions)for(t in this.securityDefinitions){var h=this.securityDefinitions[t];h.vendorExtensions={};for(var g in h)if(a.extractExtensions(g,h),"scopes"===g){var y=h[g];if("object"==typeof y){y.vendorExtensions={};for(var v in

y)a.extractExtensions(v,y)}}}if(Array.isArray(e.tags))for(c={},n=0;n<e.tags.length;n++){var b=r.cloneDeep(e.tags[n]);c[b.name]=b;for(u in b){if("externalDocs"===u&&"object"==typeof b[u])for(var w in b[u])a.extractExtensions(w,b[u]);a.extractExtensions(u,b)}}if("string"==typeof this.url){if(i=this.parseUri(this.url),"undefined"==typeof this.scheme&&"undefined"==typeof this.schemes||0===this.schemes.length)"undefined"!=typeof window?this.scheme=window.location.protocol.replace(":",""):this.scheme=i.scheme||"http";else if("undefined"==typeof this.scheme)if("undefined"!=typeof window){var _=window.location.protocol.replace(":","");"https"===_&&this.schemes.indexOf(_)===-1?(a.log("Cannot call a http server from https inside a browser!"),this.scheme="http"):this.schemes.indexOf(_)!==-1this.scheme=_:this.schemes.indexOf("https")!==-1?this.scheme="https":this.scheme="http"}else this.scheme=this.schemes[0]||i.scheme;"undefined"!=typeof this.host&&""!==this.host||(this.host=i.host,i.port&&(this.host=this.host+":"+i.port))}else"undefined"==typeof this.schemes||0===this.schemes.length?this.scheme="http":"undefined"==typeof this.scheme&&(this.scheme=this.schemes[0]);this.definitions=e.definitions;for(t in this.definitions){var x=new o(t,this.definitions[t],this.models,this.modelPropertyMacro);x&&(this.models[t]=x)}p.apis.help=r.bind(p.help,p),r.forEach(e.paths,function(e,t){r.isPlainObject(e)&&r.forEach(m,function(n){var i=e[n];if(!r.isUndefined(i)){if(!r.isPlainObject(i))return void a.log("The '"+n+"' operation for '"+t+"' path is not an Operation Object");var o=i.tags;!r.isUndefined(o)&&r.isArray(o)&&0!==o.length||(o=i.tags=["default"]);var h=p.idFromOp(t,n,i),m=new s(p,i.scheme,h,n,t,i,p.definitions,p.models,p.clientAuthorizations);m.vendorExtensions={};for(u in i)a.extractExtensions(u,m,i[u]);if(m.externalDocs=i.externalDocs,m.externalDocs){m.externalDocs=r.cloneDeep(m.externalDocs),m.externalDocs.vendorExtensions={};for(u in m.externalDocs)a.extractExtensions(u,m.externalDocs)}r.forEach(o,function(e){var t=r.indexOf(f,e)>-1?"_"+e:e,n=r.indexOf(d,e)>-1?"_"+e:e,i=p[t];if(t!==e&&a.log("The '"+e+"' tag conflicts with a SwaggerClient function/property name. Use 'client."+t+"' or 'client.apis."+e+"' instead of 'client."+e+"'."),n!==e&&a.log("The '"+e+"' tag conflicts with a SwaggerClient operation function/property name. Use 'client.apis."+n+"' instead of 'client.apis."+e+"'."),r.indexOf(d,h)>-1&&(a.log("The '"+h+"' operationId conflicts with a SwaggerClient operation function/property name. Use 'client.apis."+n+"._"+h+"' instead of 'client.apis."+n+"."+h+"'."),h="_"+h,m.nickname=h),r.isUndefined(i)){i=p[t]=p.apis[n]={},i.operations={},i.label=n,i.apis={};var o=c[e];r.isUndefined(o)||(i.description=o.description,i.externalDocs=o.externalDocs,i.vendorExtensions=o.vendorExtensions),p[t].help=r.bind(p.help,i),p.apisArray.push(new l(e,i.description,i.externalDocs,m))}h=p.makeUniqueOperationId(h,p.apis[n]),r.isFunction(i.help)||(i.help=r.bind(p.help,i)),p.apis[n][h]=i[h]=r.bind(m.execute,m),p.apis[n][h].help=i[h].help=r.bind(m.help,m),p.apis[n][h].asCurl=i[h].asCurl=r.bind(m.asCurl,m),i.apis[h]=i.operations[h]=m;var s=r.find(p.apisArray,function(t){return t.tag===e});s&&s.operationsArray.push(m)})})});var A=[];return r.forEach(Object.keys(c),function(e){var t;for(t in p.apisArray){var n=p.apisArray[t];n&&e===n.name&&(A.push(n),p.apisArray[t]=null)}}),r.forEach(p.apisArray,function(e){e&&A.push(e)}),p.apisArray=A,r.forEach(e.definitions,function(e,t){e.id=t.toLowerCase(),e.name=t,p.modelsArray.push(e)}),this.isBuilt=!0,this.usePromise?(this.isValid=!0,this.isBuilt=!0,this.deferredClient.resolve(this),this.deferredClient.promise):(this.success&&this.success(),this)},g.prototype.makeUniqueOperationId=function(e,t){for(var n=0,i=e;;){var a=!1;if(r.forEach(t.operations,function(e){e.nickname===i&&(a=!0)}),!a)return i;i=e+"_"+n,n++}return e},g.prototype.parseUri=function(e){var t=/^(((([^:\/#\?]+:)?(?:(\/\/)((?:(([^:@\/#\?]+)(?:\:([^:@\/#\?]+))?)@)?(([^:\/#\?\]\[]+|\[[^\/\]@#?]+\])(?:\:([0-9]+))?))?)?((\/?(?:[^\/\?#]+\/+)*)([^\?#]*)))?(\?[^#]+)?)(#.*)?/,n=t.exec(e);return{scheme:n[4]?n[4].replace(":",""):void 0,host:n[11],port:n[12],path:n[15]}},g.prototype.help=function(e){var t="";return this instanceof g?r.forEach(this.apis,function(e,n){r.isPlainObject(e)&&(t+="operations for the '"+n+"' tag\n",r.forEach(e.operations,function(e,n){t+="

```
 * "+n+": "+e.summary+"\n"}))}):(this instanceof l||r.isPlainObject(this))&&(t+="operations for the "'+this.label+"'
tag\n",r.forEach(this.apis,function(e,n){t+="  * "+n+":
"+e.summary+"\n"})),e?t:(a.log(t),t)},g.prototype.tagFromLabel=function(e){return
e},g.prototype.idFromOp=function(e,t,n){n&&n.operationId||(n=n||{},n.operationId=t+"_"+e);var
r=n.operationId.replace(/[\s!@#$%^&*()_+=\[{\]};:<>|.\/?,\\'""-]/g,"_")||e.substring(1)+"_"+t;return
r=r.replace(/((_){2,})/g,"_"),r=r.replace(/^(_)*/g,""),r=r.replace(/([_])*$/g,"")},g.prototype.setHost=function(e){this.
host=e,this.apis&&r.forEach(this.apis,function(t){t.operations&&r.forEach(t.operations,function(t){t.host=e})})},g.
prototype.setBasePath=function(e){this.basePath=e,this.apis&&r.forEach(this.apis,function(t){t.operations&&r.forE
ach(t.operations,function(t){t.basePath=e})})},g.prototype.setSchemes=function(e){this.schemes=e,e&&e.length>0
&&this.apis&&r.forEach(this.apis,function(t){t.operations&&r.forEach(t.operations,function(t){t.scheme=e[0]})})}
,g.prototype.fail=function(e){return
this.usePromise?(this.deferredClient.reject(e),this.deferredClient.promise):void(this.failure?this.failure(e):this.failure
(e))}},{"./auth":2,"./helpers":4,"./http":5,"./resolver":6,"./spec-
converter":8,"./types/model":9,"./types/operation":10,"./types/operationGroup":11,"lodash-
compat/array/indexOf":49,"lodash-compat/collection/find":53,"lodash-compat/collection/forEach":54,"lodash-
compat/function/bind":58,"lodash-compat/lang/cloneDeep":138,"lodash-compat/lang/isArray":140,"lodash-
compat/lang/isFunction":142,"lodash-compat/lang/isObject":144,"lodash-compat/lang/isPlainObject":145,"lodash-
compat/lang/isUndefined":148,q:157}],4:[function(e,t,n){(function(n){"use strict";var r={isPlainObject:e("lodash-
compat/lang/isPlainObject"),indexOf:e("lodash-compat/array/indexOf")};t.exports.__bind=function(e,t){return
function(){return e.apply(t,arguments)}};var
i=t.exports.log=function(){console&&"test"!==n.env.NODE_ENV&&console.log(Array.prototype.slice.call(argum
ents)[0])};t.exports.fail=function(e){i(e)},t.exports.optionHtml=function(e,t){return'<tr><td
 class="optionName">'+e+":</td><td>"+t+"</td></tr>"};var a=t.exports.resolveSchema=function(e){return
r.isPlainObject(e.schema)&&(e=a(e.schema)),e};t.exports.simpleRef=function(e){return"undefined"==typeof
e?null:0===e.indexOf("#/definitions/")?e.substring("#/definitions/".length):e},t.exports.extractExtensions=function(
e,t,n){e&&t&&"string"==typeof e&&0===e.indexOf("x-
")&&(t.vendorExtensions=t.vendorExtensions||{},n?t.vendorExtensions[e]=n:t.vendorExtensions[e]=t[e])}).call(thi
s,e("_process"))},{_process:12,"lodash-compat/array/indexOf":49,"lodash-
compat/lang/isPlainObject":145}],5:[function(t,n,r){(function(r){"use strict";var
i=t("./helpers"),a=t("superagent"),o=t("js-yaml"),s={isObject:t("lodash-compat/lang/isObject"),keys:t("lodash-
compat/object/keys")},l=function(){this.type="JQueryHttpClient"},u=function(){this.type="SuperagentHttpClient"}
,c=n.exports=function(){};c.prototype.execute=function(t,n){var
 r;r=n&&n.client?n.client:new u(n),r.opts=n||{};var i=!1;if("undefined"!=typeof window&&"undefined"!=typeof
window.jQuery&&(i=!0),"options"===t.method.toLowerCase()&&"SuperagentHttpClient"===r.type&&(e("forcing
jQuery as OPTIONS are not supported by
SuperAgent"),t.useJQuery=!0),this.isInternetExplorer()&&(t.useJQuery===!1||!i))throw new Error("Unsupported
configuration! JQuery is required but not
available");(t&&t.useJQuery===!0||this.isInternetExplorer()&&i)&&(r=new l(n));var
a=t.on.response,o=t.on.error,c=function(e){return
n&&n.requestInterceptor&&(e=n.requestInterceptor.apply(e)),e},p=function(e){return
n&&n.responseInterceptor&&(e=n.responseInterceptor.apply(e)),a(e)},h=function(e){n&&n.responseInterceptor&
&(e=n.responseInterceptor.apply(e)),o(e)};return
t.on.error=function(e){h(e)},t.on.response=function(e){p(e)},s.isObject(t)&&s.isObject(t.body)&&t.body.type&&"f
ormData"===t.body.type&&n.useJQuery&&(t.contentType=!1,t.processData=!1,delete
 t.headers["Content-
Type"]),t=c(t)||t,t.beforeSend?t.beforeSend(function(e){r.execute(e||t)}):r.execute(t),t.deferred?t.deferred.promise:t},
c.prototype.isInternetExplorer=function(){var e=!1;if("undefined"!=typeof navigator&&navigator.userAgent){var
t=navigator.userAgent.toLowerCase();if(t.indexOf("msie")!==-1){var
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n=parseInt(t.split("msie")[1]);n<=8&&(e=!0)}}return e},l.prototype.execute=function(e){var t=this.jQuery||"undefined"!=typeof window&&window.jQuery,n=e.on,r=e;if("undefined"==typeof t||t===!1)throw new Error("Unsupported configuration! JQuery is required but not available");return e.type=e.method,e.cache=e.jqueryAjaxCache,e.data=e.body,delete e.jqueryAjaxCache,delete e.useJQuery,delete e.body,e.complete=function(e){for(var t={},a=e.getAllResponseHeaders().split("\n"),s=0;s<a.length;s++){var l=a[s].trim();if(0!==l.length){var u=l.indexOf(":");if(u!==-1){var c=l.substring(0,u).trim(),p=l.substring(u+1).trim();t[c]=p}else t[l]=null}}var h={url:r.url,method:r.method,status:e.status,statusText:e.statusText,data:e.responseText,headers:t};try{var f=e.responseJSON||o.safeLoad(e.responseText);h.obj="string"==typeof f?{}:f}catch(d){i.log("unable to parse JSON/YAML content")}if(h.obj=h.obj||null,e.status>=200&&e.status<300)n.response(h);else{if(!(0===e.status||e.status>=400&&e.status<599))return n.response(h);n.error(h)}},t.support.cors=!0,t.ajax(e)},u.prototype.execute=function(e){var t=e.connectionAgent,n=e.method.toLowerCase(),l=e.timeout;"delete"===n&&(n="del");var u=e.headers||{},c=a[n](e.url);t&&c.agent(t),l&&c.timeout(l),e.enableCookies&&c.withCredentials();var p=e.headers.Accept;if(this.binaryRequest(p)&&c.on("request",function(){this.xhr&&(this.xhr.responseType="blob")}),e.body)if(s.isObject(e.body)){var h=e.headers["Content-Type"]||"";if(0===h.indexOf("multipart/form-data"))if(delete u["Content-Type"],"[object FormData]"==={}.toString.apply(e.body))c.send(e.body);else{var f,d,m;for(f in e.body)if(d=e.body[f],Array.isArray(d))for(m in d)c.field(f,m);else c.field(f,d)}else s.isObject(e.body)&&(e.body=JSON.stringify(e.body),c.send(e.body))}else c.send(e.body);var g;for(g in u)c.set(g,u[g]);"function"==typeof c.buffer&&c.buffer(),c.end(function(t,n){n=n||{status:0,headers:{error:"no response from server"}};var a,l={url:e.url,method:e.method,headers:n.headers};if(!t&&n.error&&(t=n.error),t&&e.on&&e.on.error){if(l.errObj=t,l.status=n?n.status:500,l.statusText=n?n.text:t.message,n.headers&&n.headers["content-type"]&&n.headers["content-type"].indexOf("application/json")>=0)try{l.obj=JSON.parse(l.statusText)}catch(u){l.obj=null}a=e.on.error}else if(n&&e.on&&e.on.response){var c;if(n.body&&s.keys(n.body).length>0)c=n.body;else try{c=o.safeLoad(n.text),c="string"==typeof c?null:c}catch(u){i.log("cannot parse JSON/YAML content")}"function"==typeof r&&r.isBuffer(c)?l.data=c:l.obj="object"==typeof c?c:null,l.status=n.status,l.statusText=n.text,a=e.on.response}n.xhr&&n.xhr.response?l.data=n.xhr.response:l.data||(l.data=l.statusText),a&&a(l)})},u.prototype.binaryRequest=function(e){return!!e&&(/^image/i.test(e)||/^application\/pdf/.test(e))}}).call(this,t("buffer").Buffer)},{"./helpers":4,buffer:14,"js-yaml":19,"lodash-compat/lang/isObject":144,"lodash-compat/object/keys":149,superagent:158}],6:[function(e,t,n){"use strict";function r(e){var t={},n=/[a-z]+:\/\//i.exec(e);n&&(t.proto=n[0].slice(0,-3),e=e.slice(t.proto.length+1)),"//"===e.slice(0,2)&&(t.domain=e.slice(2).split("/")[0],e=e.slice(2+t.domain.length));var r=e.split("#");return r[0].length&&(t.path=r[0]),r.length>1&&(t.fragment=r.slice(1).join("#")),t}function i(e){var t=e.path;return void 0===t&&(t=""),void 0!==e.fragment&&(t+="#"+e.fragment),void 0!==e.domain&&("/"===t.slice(0,1)&&(t=t.slice(1)),t="//"+e.domain+"/"+t,void 0!==e.proto&&(t=e.proto+":"+t)),t}function a(e,t){var n=r(t);if(void 0!==n.domain)return t;var a=r(e);if(void 0===n.path)a.fragment=n.fragment;else if("/"===n.path.slice(0,1))a.path=n.path,a.fragment=n.fragment;else{var o=void 0===a.path?[]:a.path.split("/"),s=n.path.split("/");for(o.length&&o.pop();".."===s[0]||"."===s[0];)".."===s[0]&&o.pop(),s.shift();a.path=o.concat(s).join("/"),a.fragment=n.fragment}return i(a)}var o=e("./http"),s={isObject:e("lodash-compat/lang/isObject"),cloneDeep:e("lodash-compat/lang/cloneDeep"),isArray:e("lodash-compat/lang/isArray"),isString:e("lodash-compat/lang/isString")},l=t.exports=function(){this.failedUrls=[],this.resolverCache={},this.pendingUrls={}};l.prototype.processAllOf=function(e,t,n,r,i,a){var o,s,l;n["x-resolved-from"]=["#/definitions/"+t];var u=n.allOf;for(u.sort(function(e,t){return e.$ref&&t.$ref?0:e.$ref?-1:1}),o=0;o<u.length;o++)l=u[o],s="/definitions/"+t+"/allOf",this.resolveInline(e,a,l,r,i,s)},l.prototype.resolve=funct

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ion(e,t,n,r){this.spec=e;var i,a,l=t,u=n,c=r,p={};"function"==typeof t&&(l=null,u=t,c=n);var
h,f=l;this.scope=c||this,this.iteration=this.iteration||0,this.scope.options&&this.scope.options.requestInterceptor&&(
p.requestInterceptor=this.scope.options.requestInterceptor),this.scope.options&&this.scope.options.responseIntercep
tor&&(p.responseInterceptor=this.scope.options.responseInterceptor);var
 d,m,g,y,v,b,w,_=0,x={},A={},S=[];e.definitions=e.definitions||{};for(d in e.definitions){var
j=e.definitions[d];if(j.$ref)this.resolveInline(l,e,j,S,A,j);else{for(y in
j.properties)g=j.properties[y],s.isArray(g.allOf)?this.processAllOf(l,d,g,S,A,e):this.resolveTo(l,g,S,"/definitions");j.a
llOf&&this.processAllOf(l,d,j,S,A,e)}}e.parameters=e.parameters||{};for(d in
e.parameters){if(v=e.parameters[d],"body"===v["in"]&&v.schema)if(s.isArray(v.schema.allOf)){h="inline_model"
;var E=h;for(b=!1,w=0;!b;){if("undefined"==typeof
e.definitions[E]){b=!0;break}E=h+"_"+w,w++}e.definitions[E]={allOf:v.schema.allOf},delete
v.schema.allOf,v.schema.$ref="#/definitions/"+E,this.processAllOf(l,E,e.definitions[E],S,A,e)}else
this.resolveTo(l,v.schema,S,i);v.$ref&&this.resolveInline(l,e,v,S,A,v.$ref)}for(d in e.paths){var
O,k,T;if(m=e.paths[d],"object"==typeof
 m){for(O in m)if("$ref"===O)i="/paths"+d,this.resolveInline(l,e,m,S,A,i);else{k=m[O];var
C=m.parameters||[],I=k.parameters||[];for(a in
C)v=C[a],I.unshift(v);"parameters"!==O&&s.isObject(k)&&(k.parameters=k.parameters||I);for(a in
I){if(v=I[a],i="/paths"+d+"/"+O+"/parameters","body"===v["in"]&&v.schema)if(s.isArray(v.schema.allOf)){for(h=
"inline_model",d=h,b=!1,w=0;!b;){if("undefined"==typeof
e.definitions[d]){b=!0;break}d=h+"_"+w,w++}e.definitions[d]={allOf:v.schema.allOf},delete
v.schema.allOf,v.schema.$ref="#/definitions/"+d,this.processAllOf(l,d,e.definitions[d],S,A,e)}else
this.resolveTo(l,v.schema,S,i);v.$ref&&this.resolveInline(l,e,v,S,A,v.$ref)}for(T in k.responses){var
D=k.responses[T];if(i="/paths"+d+"/"+O+"/responses/"+T,s.isObject(D)&&(D.$ref&&this.resolveInline(l,e,D,S,A,i
),D.schema)){var
L=D;if(s.isArray(L.schema.allOf)){for(h="inline_model",d=h,b=!1,w=0;!b;){if("undefined"==typeof
e.definitions[d]){b=!0;break}d=h+"_"+w,w++}e.definitions[d]={allOf:L.schema.allOf},delete
 L.schema.allOf,delete
L.schema.type,L.schema.$ref="#/definitions/"+d,this.processAllOf(l,d,e.definitions[d],S,A,e)}else"array"===L.sche
ma.type?L.schema.items&&L.schema.items.$ref&&this.resolveInline(l,e,L.schema.items,S,A,i):this.resolveTo(l,D.s
chema,S,i)}}}m.parameters=[]}}var M,R=0,U=[],P=S;
for(a=0;a<P.length;a++){var q=P[a];if(l===q.root){if("ref"===q.resolveAs){var
B,N=((q.root||"")+"/"+q.key).split("/"),z=[],$="";if(q.key.indexOf("../")>=0){for(var
F=0;F<N.length;F++)".."===N[F]?z=z.slice(0,z.length-
1):z.push(N[F]);for(B=0;B<z.length;B++)B>0&&($+="/"),$+=z[B];q.root=$,U.push(q)}else
if(M=q.key.split("#"),2===M.length){0!==M[0].indexOf("http:")&&0!==M[0].indexOf("https:")||(q.root=M[0]),i=
M[1].split("/");var V,H=e;for(B=0;B<i.length;B++){var Y=i[B];if(""!==Y){if(H=H[Y],"undefined"==typeof
H){V=null;break}V=H}}null===V&&U.push(q)}}else
if("inline"===q.resolveAs){if(q.key&&q.key.indexOf("#")===-
1&&"/"!==q.key.charAt(0)){for(M=q.root.split("/"),i="",a=0;a<M.length-
1;a++)i+=M[a]+"/";i+=q.key,q.root=i,q.location=""}U.push(q)}}else
 U.push(q)}R=U.length;for(var
J={},W=0;W<U.length;W++)!function(e,t,n,r,i){if(e.root&&e.root!==l)if(n.failedUrls.indexOf(e.root)===-1){var
a={useJQuery:!1,url:e.root,method:"get",headers:{accept:n.scope.swaggerRequestHeaders||"application/json"},on:{
error:function(i){_+=1,console.log("failed url: "+a.url),n.failedUrls.push(a.url),r&&delete
r[e.root],A[e.key]={root:e.root,location:e.location},_===R&&n.finish(t,f,S,x,A,u)},response:function(i){var
a=i.obj;r&&delete
r[e.root],n.resolverCache&&(n.resolverCache[e.root]=a),n.resolveItem(a,e.root,S,x,A,e),_+=1,_===R&&n.finish(t,f
,S,x,A,u)}}};c&&c.fetchSpecTimeout&&(a.timeout=c.fetchSpecTimeout),c&&c.clientAuthorizations&&c.clientAu
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thorizations.apply(a),function h(){setTimeout(function(){if(r[a.url])h();else{var e=n.resolverCache[a.url];s.isObject(e)?a.on.response({obj:e}):(r[a.url]=!0,(new o).execute(a,p))}},0)}()}else _+=1,A[e.key]={root:e.root,location:e.location},_===R&&n.finish(t,f,S,x,A,u);else n.resolveItem(t,f,S,x,A,e),_+=1,_===R&&n.finish(t,l,S,x,A,u,!0)}(U[W],e,this,J,W);0===Object.keys(U).length&&this.finish(e,f,S,x,A,u)},l.prototype.resolveItem=function(e,t,n,r,i,a){var o=a.location,s=e,l=o.split("/");if(""!==o)for(var u=0;u<l.length;u++){var c=l[u];if(c.indexOf("~1")!==-1&&(c=l[u].replace(/~0/g,"~").replace(/~1/g,"/"),"/"!==c.charAt(0)&&(c="/"+c)),"undefined"==typeof s||null===s)break;if(""===c&&u===l.length-1&&l.length>1){s=null;break}c.length>0&&(s=s[c])}var p=a.key;l=a.key.split("/");var h=l[l.length-1];h.indexOf("#")>=0&&(h=h.split("#")[1]),null!==s&&"undefined"!=typeof s?r[p]={name:h,obj:s,key:a.key,root:a.root}:i[p]={root:a.root,location:a.location}},l.prototype.finish=function(e,t,n,r,i,a,o){var s,l;for(s in n){var u=n[s],c=u.key,p=r[c];if(p)if(e.definitions=e.definitions||{},"ref"===u.resolveAs){if(o!==!0)for(c in p.obj)l=this.retainRoot(c,p.obj[c],u.root),p.obj[c]=l;e.definitions[p.name]=p.obj,u.obj.$ref="#/definitions/"+p.name}else if("inline"===u.resolveAs){var h=u.obj;h["x-resolved-from"]=[u.key],delete h.$ref;for(c in p.obj)l=p.obj[c],o!==!0&&(l=this.retainRoot(c,p.obj[c],u.root)),h[c]=l}}var f=this.countUnresolvedRefs(e);0===f||this.iteration>5?(this.resolveAllOf(e.definitions),this.resolverCache=null,a.call(this.scope,e,i)):(this.iteration+=1,this.resolve(e,t,a,this.scope))},l.prototype.countUnresolvedRefs=function(e){var t,n=this.getRefs(e),r=[],i=[];for(t in n)0===t.indexOf("#")?r.push(t.substring(1)):i.push(t);for(t=0;t<r.length;t++)for(var a=r[t],o=a.split("/"),s=e,l=0;l<o.length;l++){var u=o[l];if(""!==u&&(s=s[u],"undefined"==typeof s)){i.push(a);break}}return i.length},l.prototype.getRefs=function(e,t){t=t||e;var n={};for(var r in t)if(t.hasOwnProperty(r)){var i=t[r];if("$ref"===r&&"string"==typeof i)n[i]=null;else if(s.isObject(i)){var a=this.getRefs(i);for(var o in a)n[o]=null}}return n},l.prototype.retainRoot=function(e,t,n){if(s.isObject(t))for(var r in t){var i=t[r];"$ref"===r&&"string"==typeof i?t[r]=a(n,i):s.isObject(i)&&this.retainRoot(r,i,n)}else s.isString(t)&&"$ref"===e&&(t=a(n,t));return t},l.prototype.resolveInline=function(e,t,n,r,i,a){var o,s,l,u,c=n.$ref,p=n.$ref,h=!1;if(e=e||"",p){if(0===p.indexOf("../")){for(s=p.split("../"),l=e.split("/"),p="",o=0;o<s.length;o++)""===s[o]?l=l.slice(0,l.length-1):p+=s[o];for(e="",o=0;o<l.length-1;o++)o>0&&(e+="/"),e+=l[o];h=!0}if(p.indexOf("#")>=0)if(0===p.indexOf("/"))u=p.split("#"),s=e.split("//"),l=s[1].split("/"),e=s[0]+"//"+l[0]+u[0],a=u[1];else{if(u=p.split("#"),""!==u[0]){if(l=e.split("/"),l=l.slice(0,l.length-1),!h){e="";for(var f=0;f<l.length;f++)f>0&&(e+="/"),e+=l[f]}e+="/"+p.split("#")[0]}a=u[1]}if(0===p.indexOf("http:")||0===p.indexOf("https:"))p.indexOf("#")>=0?(e=p.split("#")[0],a=p.split("#")[1]):(e=p,a=""),r.push({obj:n,resolveAs:"inline",root:e,key:c,location:a});else if(0===p.indexOf("#"))a=p.split("#")[1],r.push({obj:n,resolveAs:"inline",root:e,key:c,location:a});else if(0===p.indexOf("/")&&p.indexOf("#")===-1){a=p;var d=e.match(/^https?\:\/\/([^\/?#]+)(?:[\/?#]|$)/i);d&&(e=d[0]+p.substring(1),a=""),r.push({obj:n,resolveAs:"inline",root:e,key:c,location:a})}else r.push({obj:n,resolveAs:"inline",root:e,key:c,location:a})}else"array"===n.type&&this.resolveTo(e,n.items,r,a)},l.prototype.resolveTo=function(e,t,n,r){var i,a,o=t.$ref,l=e;if("undefined"!=typeof o&&null!==o){if(o.indexOf("#")>=0){var u=o.split("#");if(u[0]&&0===o.indexOf("/"));else if(!u[0]||0!==u[0].indexOf("http:")&&0!==u[0].indexOf("https:")){if(u[0]&&u[0].length>0){for(i=e.split("/"),l="",a=0;a<i.length-1;a++)l+=i[a]+"/";l+=u[0]}}else l=u[0],o=u[1];r=u[1]}else if(0===o.indexOf("http:")||0===o.indexOf("https:"))l=o,r="";else{for(i=e.split("/"),l="",a=0;a<i.length-1;a++)l+=i[a]+"/";l+=o,r=""}n.push({obj:t,resolveAs:"ref",root:l,key:o,location:r})}else if("array"===t.type){var c=t.items;this.resolveTo(e,c,n,r)}else if(t&&(t.properties||t.additionalProperties)){var p=this.uniqueName("inline_model");t.title&&(p=this.uniqueName(t.title)),delete

t.title,this.spec.definitions[p]=s.cloneDeep(t),t.$ref="#/definitions/"+p,delete t.type,delete t.properties}},l.prototype.uniqueName=function(e){for(var t=e,n=0;;){if(!s.isObject(this.spec.definitions[t]))return t;t=e+"_"+n,n++}},l.prototype.resolveAllOf=function(e,t,n){n=n||0,t=t||e;var r;for(var i in t)if(t.hasOwnProperty(i)){var a=t[i];if(null===a)throw new TypeError("Swagger 2.0 does not support null types ("+t+"). See https://github.com/swagger-api/swagger-spec/issues/229.");if("object"==typeof a&&this.resolveAllOf(e,a,n+1),a&&"undefined"!=typeof a.allOf){var o=a.allOf;if(s.isArray(o)){var l=s.cloneDeep(a);delete l.allOf,l["x-composed"]=!0,"undefined"!=typeof a["x-resolved-from"]&&(l["x-resolved-from"]=a["x-resolved-from"]);for(var u=0;u<o.length;u++){var c=o[u],p="self";"undefined"!=typeof c["x-resolved-from"]&&(p=c["x-resolved-from"][0]);for(var h in c)if(l.hasOwnProperty(h))if("properties"===h){var f=c[h];for(r in f){l.properties[r]=s.cloneDeep(f[r]);var d=f[r]["x-resolved-from"];"undefined"!=typeof d&&"self"!==d||(d=p),l.properties[r]["x-resolved-from"]=d}}else if("required"===h){for(var m=l.required.concat(c[h]),g=0;g<m.length;++g)for(var y=g+1;y<m.length;++y)m[g]===m[y]&&m.splice(y--,1);l.required=m}else"x-resolved-from"===h&&l["x-resolved-from"].push(p);else if(l[h]=s.cloneDeep(c[h]),"properties"===h)for(r in l[h])l[h][r]["x-resolved-from"]=p}t[i]=l}}}},{"./http":5,"lodash-compat/lang/cloneDeep":138,"lodash-compat/lang/isArray":140,"lodash-compat/lang/isObject":144,"lodash-compat/lang/isString":146}],7:[function(e,t,n){"use strict";var r=e("./helpers"),i={isPlainObject:e("lodash-compat/lang/isPlainObject"),isUndefined:e("lodash-compat/lang/isUndefined"),isArray:e("lodash-compat/lang/isArray"),isObject:e("lodash-compat/lang/isObject"),isEmpty:e("lodash-compat/lang/isEmpty"),map:e("lodash-compat/collection/map"),indexOf:e("lodash-compat/array/indexOf"),cloneDeep:e("lodash-compat/lang/cloneDeep"),keys:e("lodash-compat/object/keys"),forEach:e("lodash-compat/collection/forEach")},a=t.exports.optionHtml=function(e,t){return'<tr><td class="optionName">'+e+":</td><td>"+t+"</td></tr>"};t.exports.typeFromJsonSchema=function(e,t){var n;return"integer"===e&&"int32"===t?n="integer":"integer"===e&&"int64"===t?n="long":"integer"===e&&"undefined"==typeof t?n="long":"string"===e&&"date-time"===t?n="date-time":"string"===e&&"date"===t?n="date":"number"===e&&"float"===t?n="float":"number"===e&&"double"===t?n="double":"number"===e&&"undefined"==typeof t?n="double":"boolean"===e?n="boolean":"string"===e&&(n="string"),n};var o=t.exports.getStringSignature=function(e,t){var n="";return"undefined"!=typeof e.$ref?n+=r.simpleRef(e.$ref):"undefined"==typeof e.type?n+="object":"array"===e.type?t?n+=o(e.items||e.$ref||{}):(n+="Array[",n+=o(e.items||e.$ref||{}),n+="]"):n+="integer"===e.type&&"int32"===e.format?"integer":"integer"===e.type&&"int64"===e.format?"long":"integer"===e.type&&"undefined"==typeof e.format?"long":"string"===e.type&&"date-time"===e.format?"date-time":"string"===e.type&&"date"===e.format?"date":"string"===e.type&&"undefined"==typeof e.format?"string":"number"===e.type&&"float"===e.format?"float":"number"===e.type&&"double"===e.format?"double":"number"===e.type&&"undefined"==typeof e.format?"double":"boolean"===e.type?"boolean":e.$ref?r.simpleRef(e.$ref):e.type,n},s=t.exports.schemaToJSON=function(e,t,n,a){e=r.resolveSchema(e),"function"!=typeof a&&(a=function(e){return(e||{})["default"]}),n=n||{};var o,l,u=e.type||"object",c=e.format;return i.isUndefined(e.example)?i.isUndefined(e.items)&&i.isArray(e["enum"])&&(l=e["enum"][0]):l=e.example,i.isUndefined(l)&&(e.$ref?(o=t[r.simpleRef(e.$ref)],i.isUndefined(o)||(i.isUndefined(n[o.name])?(n[o.name]=o,l=s(o.definition,t,n,a),delete n[o.name]):l="array"===o.type?[]:{})):i.isUndefined(e["default"])?"string"===u?l="date-time"===c?(new Date).toISOString():"date"===c?(new Date).toISOString().split("T")[0]:"string":"integer"===u?l=0:"number"===u?l=0:"boolean"===u?l=!0:"object"===u?(l={},i.forEach(e.properties,function(e,r){var o=i.cloneDeep(e);o["default"]=a(e),l[r]=s(o,t,n,a)})):"array"===u&&(l=[],i.isArray(e.items)?i.forEach(e.items,function(e){l.push(s(e,t,n,a))}):i.isPlainObject(e.items)?l.push(s(e.items,t,n,a)):i.isUndefined(e.items)?l.push({}):r.log("Array type's 'items' property is not an array or an object, cannot

process")):l=e["default"]),l};t.exports.schemaToHTML=function(e,t,n,o){function s(e,t,a){var o,s=t;return
e.$ref?(s=e.title||r.simpleRef(e.$ref),o=n[s]):i.isUndefined(t)&&(s=e.title||"Inline Model "+
++m,o={definition:e}),a!==!0&&(f[s]=i.isUndefined(o)?{}:o.definition),s}function l(e){var t='<span
class="propType">',n=e.type||"object";return
e.$ref?t+=s(e,r.simpleRef(e.$ref)):"object"===n?t+=i.isUndefined(e.properties)?"object":s(e):"array"===n?(t+="Arr
ay[",i.isArray(e.items)?t+=i.map(e.items,s).join(","):i.isPlainObject(e.items)?t+=i.isUndefined(e.items.$ref)?i.isUnd
efined(e.items.type)||i.indexOf(["array","object"],e.items.type)!==-
1?s(e.items):e.items.type:s(e.items,r.simpleRef(e.items.$ref)):(r.log("Array
type's 'items' schema is not an array or an object, cannot
process"),t+="object"),t+="]"):t+=e.type,t+=""}function u(e,t){var
n="",r=e.type||"object",o="array"===r;switch(o&&(r=i.isPlainObject(e.items)&&!i.isUndefined(e.items.type)?e.ite
ms.type:"object"),i.isUndefined(e["default"])||(n+=a("Default",e["default"])),r){case"string":e.minLength&&(n+=a(
"Min. Length",e.minLength)),e.maxLength&&(n+=a("Max. Length",e.maxLength)),e.pattern&&(n+=a("Reg.
Exp.",e.pattern));break;case"integer":case"number":e.minimum&&(n+=a("Min.
Value",e.minimum)),e.exclusiveMinimum&&(n+=a("Exclusive Min.","true")),e.maximum&&(n+=a("Max.
Value",e.maximum)),e.exclusiveMaximum&&(n+=a("Exclusive Max.","true")),e.multipleOf&&(n+=a("Multiple
Of",e.multipleOf))}if(o&&(e.minItems&&(n+=a("Min. Items",e.minItems)),e.maxItems&&(n+=a("Max.
Items",e.maxItems)),e.uniqueItems&&(n+=a("Unique Items","true")),e.collectionFormat&&(n+=a("Coll.
Format",e.collectionFormat))),i.isUndefined(e.items)&&i.isArray(e["enum"])){var
s;s="number"===r||"integer"===r?e["enum"].join(", "):""+e["enum"].join('", "')+"",n+=a("Enum",s)}return
n.length>0&&(t=''+t+'<table class="optionsWrapper"><tr><th
colspan="2">'+r+"</th></tr>"+n+"</table>"),t}function c(e,t){var
a=e.type||"object",c="array"===e.type,f=p+t+"
"+(c?"[":"{")+h;if(t&&d.push(t),c)i.isArray(e.items)?f+=" "+i.map(e.items,function(e){var
t=e.type||"object";return i.isUndefined(e.$ref)?i.indexOf(["array","object"],t)>-
1?"object"===t&&i.isUndefined(e.properties)?"object":s(e):u(e,t):s(e,r.simpleRef(e.$ref))}).join(", "):i.i
sPlainObject(e.items)?f+=i.isUndefined(e.items.$ref)?i.indexOf(["array","object"],e.items.type||"object")>-
1?(i.isUndefined(e.items.type)||"object"===e.items.type)&&i.isUndefined(e.items.properties)?" object ":
" "+s(e.items)+" ":" "+u(e.items,e.items.type)+" ":" "+s(e.items,r.simpleRef(e.items.$ref
))+" ":(r.log("Array
type's 'items' property is not an array or an object, cannot process"),f+=" object ");else
if(e.$ref)f+=" "+s(e,t)+" ";else if("object"===a){if(i.isPlainObject(e.properties)){var
m=i.map(e.properties,function(t,a){var
s,c,p=i.indexOf(e.required,a)>=0,h=i.cloneDeep(t),f=p?"required":"",d='<span class="propName
'+f+'">'+a+" (";return
h["default"]=o(h),h=r.resolveSchema(h),c=t.description||h.description,i.isUndefined(h.$ref)||(s=n[r.simpleRef(h.$ref
)],i.isUndefined(s)||i.indexOf([void 0,"array","object"],s.definition.type)!==-
1||(h=r.resolveSchema(s.definition))),d+=l(h),p||(d+=', <span
class="propOptKey">optional'),t.readOnly&&(d+=', read
only'),d+=")",i.isUndefined(c)||(d+=': '+c+""),h["enum"]&&(d+=' = <span
class="propVals">[\"+h["enum"].join('", "')+"']"),"<div"+(t.readOnly?'
class="readOnly"':"")+">"+u(h,d)}).join(", ");m&&(f+=m+" ")}}else
f+=" "+u(e,a)+" ";return
f+p+(c?"]":"}")+h}var p='',h="";if(i.isObject(arguments[0])&&(e=void
0,t=arguments[0],n=arguments[1],o=arguments[2]),n=n||{},t=r.resolveSchema(t),i.isEmpty(t))return
p+"Empty"+h;if("string"==typeof t.$ref&&(e=r.simpleRef(t.$ref),t=n[e],"undefined"==typeof t))return p+e+" is not
defined!"+h;"string"!=typeof e&&(e=t.title||"Inline Model"),t.definition&&(t=t.definition),"function"!=typeof
o&&(o=function(e){return(e||{})["default"]});for(var

f={},d=[],m=0,g=c(t,e);i.keys(f).length>0;)i.forEach(f,function(e,t){var n=i.indexOf(d,t)>-1;delete f[t],n||(d.push(t),g+="
"+c(e,t))});return g}},{"./helpers":4,"lodash-compat/array/indexOf":49,"lodash-compat/collection/forEach":54,"lodash-compat/collection/map":56,"lodash-compat/lang/cloneDeep":138,"lodash-compat/lang/isArray":140,"lodash-compat/lang/isEmpty":141,"lodash-compat/lang/isObject":144,"lodash-compat/lang/isPlainObject":145,"lodash-compat/lang/isUndefined":148,"lodash-compat/object/keys":149}],8:[function(e,t,n){"use strict";var r=e("./http"),i={isObject:e("lodash-compat/lang/isObject")},a=t.exports=function(){this.errors=[],this.warnings=[],this.modelMap={}};a.prototype.setDocumentationLocation=function(e){this.docLocation=e},a.prototype.convert=function(e,t,n,r){if(!e||!Array.isArray(e.apis))return this.finish(r,null);this.clientAuthorizations=t;var i={swagger:"2.0"};i.originalVersion=e.swaggerVersion,this.apiInfo(e,i),this.securityDefinitions(e,i),e.basePath&&this.setDocumentationLocation(e.basePath);var a,o=!1;for(a=0;a<e.apis.length;a++){var s=e.apis[a];Array.isArray(s.operations)&&(o=!0)}o?(this.declaration(e,i),this.finish(r,i)):this.resourceListing(e,i,n,r)},a.prototype.declaration=function(e,t){var n,r,a,o;if(e.apis){0===e.basePath.indexOf("http://")?(a=e.basePath.substring("http://".length),o=a.indexOf("/"),o>0?(t.host=a.substring(0,o),t.basePath=a.substring(o)):(t.host=a,t.basePath="/")):0===e.basePath.indexOf("https://")?(a=e.basePath.substring("https://".length),o=a.indexOf("/"),o>0?(t.host=a.substring(0,o),t.basePath=a.substring(o)):(t.host=a,t.basePath="/")):t.basePath=e.basePath;var s;if(e.authorizations&&(s=e.authorizations),e.consumes&&(t.consumes=e.consumes),e.produces&&(t.produces=e.produces),i.isObject(e))for(n in e.models){var l=e.models[n],u=l.id||n;this.modelMap[u]=n}for(r=0;r<e.apis.length;r++){var c=e.apis[r],p=c.path,h=c.operations;this.operations(p,e.resourcePath,h,s,t)}var f=e.models||{};this.models(f,t)}},a.prototype.models=function(e,t){if(i.isObject(e)){var n;t.definitions=t.definitions||{};for(n in e){var r,a=e[n],o=[],s={properties:{}};for(r in a.properties){var l=a.properties[r],u={};this.dataType(l,u),l.description&&(u.description=l.description),l["enum"]&&(u["enum"]=l["enum"]),"boolean"==typeof l.required&&l.required===!0&&o.push(r),"string"==typeof l.required&&"true"===l.required&&o.push(r),s.properties[r]=u}o.length>0?s.required=o:s.required=a.required,t.definitions[n]=s}}},a.prototype.extractTag=function(e){var t=e||"default";return 0!==t.indexOf("http:")&&0!==t.indexOf("https:")||(t=t.split(["/"]),t=t[t.length-1].substring()),t.endsWith(".json")&&(t=t.substring(0,t.length-".json".length)),t.replace("/","")},a.prototype.operations=function(e,t,n,r,i){if(Array.isArray(n)){var a;i.paths||(i.paths={});var o=i.paths[e]||{},s=this.extractTag(t);i.tags=i.tags||[];var l=!1;for(a=0;a<i.tags.length;a++){var u=i.tags[a];u.name===s&&(l=!0)}for(l||i.tags.push({name:s}),a=0;a<n.length;a++){var c=n[a],p=(c.method||c.httpMethod).toLowerCase(),h={tags:[s]},f=c.authorizations;if(f&&0===Object.keys(f).length&&(f=r),"undefined"!=typeof f){var d;for(var m in f){h.security=h.security||[];var g=f[m];if(g){var y=[];for(var v in g)y.push(g[v].scope);d={},d[m]=y,h.security.push(d)}else d={},d[m]=[],h.security.push(d)}}c.consumes?h.consumes=c.consumes:i.consumes&&(h.consumes=i.consumes),c.produces?h.produces=c.produces:i.produces&&(h.produces=i.produces),c.summary&&(h.summary=c.summary),c.notes&&(h.description=c.notes),c.nickname&&(h.operationId=c.nickname),c.deprecated&&(h.deprecated=c.deprecated),this.authorizations(f,i),this.parameters(h,c.parameters,i),this.responseMessages(h,c,i),o[p]=h}i.paths[e]=o}},a.prototype.responseMessages=function(e,t){if(i.isObject(t)){var n={};this.dataType(t,n),!n.schema&&n.type&&(n={schema:n}),e.responses=e.responses||{};var r=!1;if(Array.isArray(t.responseMessages)){var a,o=t.responseMessages;for(a=0;a<o.length;a++){var s=o[a],l={description:s.message};200===s.code&&(r=!0),s.responseModel&&(l.schema={$ref:"#/definitions/"+s.responseModel}),e.responses[""+s.code]=l}}r?e.responses["default"]=n:e.responses[200]=n}},a.prototype.authorizations=function(e){!i.isObject(e)},a.prototype.parameters=function(e,t){if(Array.isArray(t)){var n;for(n=0;n<t.length;n++){var

r=t[n],i={};if(i.name=r.name,i.description=r.description,i.required=r.required,i["in"]=r.paramType,"body"===i["in"]&&(i.name="body"),"form"===i["in"]&&(i["in"]="formData"),r["enum"]&&(i["enum"]=r["enum"]),r.allowMultiple===!0||"true"===r.allowMultiple){var
a={};if(this.dataType(r,a),i.type="array",i.items=a,r.allowableValues){var
o=r.allowableValues;"LIST"===o.valueType&&(i["enum"]=o.values)}}else this.dataType(r,i);"undefined"!=typeof r.defaultValue&&(i["default"]=r.defaultValue),e.parameters=e.parameters||[],e.parameters.push(i)}}},a.prototype.dataType=function(e,t){if(i.isObject(e)){e.minimum&&(t.minimum=e.minimum),e.maximum&&(t.maximum=e.maximum),e.format&&(t.format=e.format),"undefined"!=typeof e.defaultValue&&(t["default"]=e.defaultValue);var
n=this.toJsonSchema(e);n&&(t=t||{},n.type&&(t.type=n.type),n.format&&(t.format=n.format),n.$ref&&(t.schema={$ref:n.$ref}),n.items&&(t.items=n.items))}},a.prototype.toJsonSchema=function(e){if(!e)return"object";var
t=e.type||e.dataType||e.responseClass||"",n=t.toLowerCase(),r=(e.format||"").toLowerCase();if(0===n.indexOf("list[")){var i=t.substring(5,t.length-
1),a=this.toJsonSchema({type:i});return{type:"array",items:a}}if("int"===n||"integer"===n&&"int32"===r)return{type:"integer",format:"int32"};if("long"===n||"integer"===n&&"int64"===r)return{type:"integer",format:"int64"};if("integer"===n)return{type:"integer",format:"int64"};if("float"===n||"number"===n&&"float"===r)return{type:"number",format:"float"};if("double"===n||"number"===n&&"double"===r)return{type:"number",format:"double"};if("string"===n&&"date-time"===r||"date"===n)return{type:"string",format:"date-
time"};if("string"===n)return{type:"string"};if("file"===n)return{type:"file"};if("boolean"===n)return{type:"boolean"};if("boolean"===n)return{type:"boolean"};if("array"===n||"list"===n){if(e.items){var
o=this.toJsonSchema(e.items);return{type:"array",items:o}}return{type:"array",items:{type:"object"}}}return
e.$ref?{$ref:this.modelMap[e.$ref]?"#/definitions/"+this.modelMap[e.$ref]:e.$ref}:"void"===n||""===n?{}:this.modelMap[e.type]?{$ref:"#/definitions/"+this.modelMap[e.type]}:{type:e.type}},a.prototype.resourceListing=function(e,t,n,i){var
a,o=0,s=this,l=e.apis.length,u=t,c={};n&&n.requestInterceptor&&(c.requestInterceptor=n.requestInterceptor),n&&n.responseInterceptor&&(c.responseInterceptor=n.responseInterceptor);var
p="application/json";for(n&&n.swaggerRequestHeaders&&(p=n.swaggerRequestHeaders),0===l&&this.finish(i,t),a=0;a<l;a++){var
h=e.apis[a],f=h.path,d=this.getAbsolutePath(e.swaggerVersion,this.docLocation,f);h.description&&(t.tags=t.tags||[],t.tags.push({name:this.extractTag(h.path),description:h.description||""}));var
m={url:d,headers:{accept:p},on:{},method:"get",timeout:n.timeout};m.on.response=function(e){o+=1;var
t=e.obj;t&&s.declaration(t,u),o===l&&s.finish(i,u)},m.on.error=function(e){console.error(e),o+=1,o===l&&s.finish(i,u)},this.clientAuthorizations&&"function"==typeof
this.clientAuthorizations.apply&&this.clientAuthorizations.apply(m),(new
r).execute(m,c)}},a.prototype.getAbsolutePath=function(e,t,n){if("1.0"===e&&t.endsWith(".json")){var
r=t.lastIndexOf("/");r>0&&(t=t.substring(0,r))}var i=t;return
0===n.indexOf("http:")||0===n.indexOf("https:")?i=n:(t.endsWith("/")&&(i=t.substring(0,t.length-
1)),i+=n),i=i.replace("{format}","json")},a.prototype.securityDefinitions=function(e,t){if(e.authorizations){var
n;for(n in e.authorizations){var
r=!1,i={vendorExtensions:{}},a=e.authorizations[n];if("apiKey"===a.type)i.type="apiKey",i["in"]=a.passAs,i.name=a.keyname||n,r=!0;else if("basicAuth"===a.type)i.type="basicAuth",r=!0;else if("oauth2"===a.type){var
o,s=a.scopes||[],l={};for(o in s){var
u=s[o];l[u.scope]=u.description}if(i.type="oauth2",o>0&&(i.scopes=l),a.grantTypes){if(a.grantTypes.implicit){var
c=a.grantTypes.implicit;i.flow="implicit",i.authorizationUrl=c.loginEndpoint,r=!0}if(a.grantTypes.authorization_code&&!i.flow){var
p=a.grantTypes.authorization_code;i.flow="accessCode",i.authorizationUrl=p.tokenRequestEndpoint.url,i.tokenUrl=p.tokenEndpoint.url,r=!0}}r&&(t.securityDefinitions=t.securityDefinitions||{},t.securityDefinitions[n]=i)}}},a.prototype.apiInfo=function(e,t){if(e.info){var
n=e.info;t.info={},n.contact&&(t.info.contact={},t.info.contact.email=n.contact),n.description&&(t.info.description

=n.description),n.title&&(t.info.title=n.title),n.termsOfServiceUrl&&(t.info.termsOfService=n.termsOfServiceUrl),(n.license||n.licenseUrl)&&(t.license={},n.license&&(t.license.name=n.license),n.licenseUrl&&(t.license.url=n.licenseUrl))}else
this.warnings.push("missing info section")},a.prototype.finish=function(e,t){e(t)}},{"./http":5,"lodash-compat/lang/isObject":144}],9:[function(e,t,n){"use strict";var r=(e("../helpers").log,{isPlainObject:e("lodash-compat/lang/isPlainObject"),isString:e("lodash-compat/lang/isString")}),i=e("../schema-markup.js"),a=e("js-yaml"),o=t.exports=function(e,t,n,r){return
this.definition=t||{},this.isArray="array"===t.type,this.models=n||{},this.name=e||t.title||"Inline Model",this.modelPropertyMacro=r||function(e){return
e["default"]},this};o.prototype.createJSONSample=o.prototype.getSampleValue=function(e){return
e=e||{},e[this.name]=this,this.examples&&r.isPlainObject(this.examples)&&this.examples["application/json"]?(this.definition.example=this.examples["application/json"],r.isString(this.definition.example)&&(this.definition.example=a.safeLoad(this.definition.example))):this.definition.example||(this.definition.example=this.examples),i.schemaToJSON(this.definition,this.models,e,this.modelPropertyMacro)},o.prototype.getMockSignature=function(){return
i.schemaToHTML(this.name,this.definition,this.models,this.modelPropertyMacro)}},{"../helpers":4,"../schema-markup.js":7,"js-yaml":19,"lodash-compat/lang/isPlainObject":145,"lodash-compat/lang/isString":146}],10:[function(e,t,n){"use strict";function r(e,t){if(i.isEmpty(t))return e[0];for(var n=0,r=t.length;n<r;n++)if(e.indexOf(t[n])>-1)return t[n];return e[0]}var i={cloneDeep:e("lodash-compat/lang/cloneDeep"),isUndefined:e("lodash-compat/lang/isUndefined"),isEmpty:e("lodash-compat/lang/isEmpty"),isObject:e("lodash-compat/lang/isObject")},a=e("../helpers"),o=e("./model"),s=e("../http"),l=e("q"),u=t.exports=function(e,t,n,r,i,s,l,u,c){var
p=[];e=e||{},s=s||{},e&&e.options&&(this.client=e.options.client||null,this.requestInterceptor=e.options.requestInterceptor||null,this.responseInterceptor=e.options.responseInterceptor||null),this.authorizations=s.security,this.basePath=e.basePath||"/",this.clientAuthorizations=c,this.consumes=s.consumes||e.consumes||["application/json"],this.produces=s.produces||e.produces||["application/json"],this.deprecated=s.deprecated,this.description=s.description,this.host=e.host,this.method=r||p.push("Operation "+n+" is missing method."),this.models=u||{},this.nickname=n||p.push("Operations must have a nickname."),this.operation=s,this.operations={},this.parameters=null!==s?s.parameters||[]:{},this.parent=e,this.path=i||p.push("Operation "+this.nickname+" is missing path."),this.responses=s.responses||{},this.scheme=t||e.scheme||"http",this.schemes=s.schemes||e.schemes,this.security=s.security||e.security,this.summary=s.summary||"",this.timeout=e.timeout,this.type=null,this.useJQuery=e.useJQuery,this.jqueryAjaxCache=e.jqueryAjaxCache,this.enableCookies=e.enableCookies;var
h;if(this.host||("undefined"!=typeof window?this.host=window.location.host:this.host="localhost"),this.parameterMacro=e.parameterMacro||function(e,t){return t["default"]},this.inlineModels=[],"/"!==this.basePath&&"/"===this.basePath.slice(-1)&&(this.basePath=this.basePath.slice(0,-1)),"string"==typeof this.deprecated)switch(this.deprecated.toLowerCase()){case"true":case"yes":case"1":this.deprecated=!0;break;case"false":case"no":case"0":case null:this.deprecated=!1;break;default:this.deprecated=Boolean(this.deprecated)}var
f,d;if(l)for(h in l)d=new o(h,l[h],this.models,e.modelPropertyMacro),d&&(this.models[h]=d);else
l={};for(f=0;f<this.parameters.length;f++){var
m,g=this.parameters[f];g["default"]=this.parameterMacro(this,g),"array"===g.type&&(g.isList=!0,g.allowMultiple=!0);var
y=this.getType(g);y&&"boolean"===y.toString().toLowerCase()&&(g.allowableValues={},g.isList=!0,g["enum"]=[!0,!1]);for(h
in g)a.extractExtensions(h,g);"undefined"!=typeof g["x-example"]&&(m=g["x-example"],g["default"]=m),g["x-examples"]&&(m=g["x-examples"]["default"],"undefined"!=typeof m&&(g["default"]=m));var
v=g["enum"]||g.items&&g.items["enum"];if("undefined"!=typeof v){var

b;for(g.allowableValues={},g.allowableValues.values=[],g.allowableValues.descriptiveValues=[],b=0;b<v.length;b++){var
w=v[b],_=w===g["default"]||w+""===g["default"];g.allowableValues.values.push(w),g.allowableValues.descriptiveValues.push({value:w+"",isDefault:_})}}"array"===g.type&&(y=[y],"undefined"==typeof g.allowableValues&&(delete g.isList,delete g.allowMultiple)),g.modelSignature={type:y,definitions:this.models},g.signature=this.getModelSignature(y,this.models).toString(),g.sampleJSON=this.getModelSampleJSON(y,this.models),g.responseClassSignature=g.signature}var
x,A,S,j=this.responses;j[200]?(S=j[200],A="200"):j[201]?(S=j[201],A="201"):j[202]?(S=j[202],A="202"):j[203]?(S=j[203],A="203"):j[204]?(S=j[204],A="204"):j[205]?(S=j[205],A="205"):j[206]?(S=j[206],A="206"):j["default"]&&(S=j["default"],A="default");for(x
in j)if(a.extractExtensions(x,j),"string"==typeof x&&x.indexOf("x-")===-1){var E=j[x];if("object"==typeof E&&"object"==typeof E.headers){var O=E.headers;for(var k in O){var T=O[k];if("object"==typeof T)for(var C in T)a.extractExtensions(C,T)}}}if(S)for(x in S)a.extractExtensions(x,S);if(S&&S.schema){var
I,D=this.resolveModel(S.schema,l);delete
j[A],D?(this.successResponse={},I=this.successResponse[A]=D):S.schema.type&&"object"!==S.schema.type&&"array"!==S.schema.type?(this.successResponse={},I=this.successResponse[A]=S.schema):(this.successResponse={},I=this.successResponse[A]=new o((void
0),S.schema||{},this.models,e.modelPropertyMacro)),I&&(I.vendorExtensions=S.vendorExtensions,S.description&&(I.description=S.description),S.examples&&(I.examples=S.examples),S.headers&&(I.headers=S.headers)),this.type=S}return
p.length>0&&this.resource&&this.resource.api&&this.resource.api.fail&&this.resource.api.fail(p),this};u.prototype.isDefaultArrayItemValue=function(e,t){return
t["default"]&&Array.isArray(t["default"])?t["default"].indexOf(e)!==-1:e===t["default"]},u.prototype.getType=function(e){var
t,n=e.type,r=e.format,i=!1;"integer"===n&&"int32"===r?t="integer":"integer"===n&&"int64"===r?t="long":"integer"===n?t="integer":"string"===n?t="date-time"===r?"date-time":"date"===r?"date":"string":"number"===n&&"float"===r?t="float":"number"===n&&"double"===r?t="double":"number"===n?t="double":"boolean"===n?t="boolean":"array"===n?(i=!0,e.items&&(t=this.getType(e.items))):"file"===n&&(t="file"),e.$ref&&(t=a.simpleRef(e.$ref));var o=e.schema;if(o){var s=o.$ref;return
s?(s=a.simpleRef(s),i?[s]:s):"object"===o.type?this.addInlineModel(o):this.getType(o)}return
i?[t]:t},u.prototype.addInlineModel=function(e){var t=this.inlineModels.length,n=this.resolveModel(e,{});return
n?(this.inlineModels.push(n),"Inline Model "+t):null},u.prototype.getInlineModel=function(e){if(/^Inline Model \d+$/.test(e)){var t=parseInt(e.substr("Inline Model".length).trim(),10),n=this.inlineModels[t];return
n}return null},u.prototype.resolveModel=function(e,t){if("undefined"!=typeof e.$ref){var
n=e.$ref;if(0===n.indexOf("#/definitions/")&&(n=n.substring("#/definitions/".length)),t[n])return new
o(n,t[n],this.models,this.parent.modelPropertyMacro)}else if(e&&"object"==typeof
e&&("object"===e.type||i.isUndefined(e.type)))return new o((void
0),e,this.models,this.parent.modelPropertyMacro);return null},u.prototype.help=function(e){for(var
t=this.nickname+": "+this.summary+"\n",n=0;n<this.parameters.length;n++){var
r=this.parameters[n],i=r.signature;t+="\n * "+r.name+" ("+i+"): "+r.description}return"undefined"==typeof
e&&a.log(t),t},u.prototype.getModelSignature=function(e,t){var n,r;return e instanceof
Array&&(r=!0,e=e[0]),"undefined"==typeof
e?(e="undefined",n=!0):t[e]?(e=t[e],n=!1):this.getInlineModel(e)?(e=this.getInlineModel(e),n=!1):n=!0,n?r?"Array["+e+"]":e.toString():r?"Array["+e.getMockSignature()+"]":e.getMockSignature()},u.prototype.supportHeaderParams=function(){return!0},u.prototype.supportedSubmitMethods=function(){return
this.parent.supportedSubmitMethods},u.prototype.getHeaderParams=function(e){for(var
t=this.setContentTypes(e,{}),n={},r=0;r<this.parameters.length;r++){var

i=this.parameters[r];"header"===i["in"]&&(n[i.name.toLowerCase()]=i)}for(var a in e){var o=n[a.toLowerCase()];if("undefined"!=typeof o){var s=e[a];Array.isArray(s)&&(s=s.toString()),t[o.name]=s}}return t},u.prototype.urlify=function(e){for(var t={},n=this.path.replace(/#.*/,""),r="",i=0;i<this.parameters.length;i++){var a=this.parameters[i];if("undefined"!=typeof e[a.name])if("path"===a["in"]){var o=new RegExp("{"+a.name+"}","gi"),s=e[a.name];s=Array.isArray(s)?this.encodePathCollection(a.collectionFormat,a.name,s):this.encodePathParam(s),n=n.replace(o,s)}else if("query"===a["in"]&&"undefined"!=typeof e[a.name])if(r+=""===r&&n.indexOf("?")<0?"?":"&","undefined"!=typeof a.collectionFormat){var l=e[a.name];r+=Array.isArray(l)?this.encodeQueryCollection(a.collectionFormat,a.name,l):this.encodeQueryKey(a.name)+"="+this.encodeQueryParam(e[a.name])}else r+=this.encodeQueryKey(a.name)+"="+this.encodeQueryParam(e[a.name]);else"formData"===a["in"]&&(t[a.name]=e[a.name])}var u=this.scheme+"://"+this.host;return"/"!==this.basePath&&(u+=this.basePath),u+n+r},u.prototype.getMissingParams=function(e){var t,n=[];for(t=0;t<this.parameters.length;t++){var r=this.parameters[t];r.required===!0&&"undefined"==typeof e[r.name]&&(n=r.name)}return n},u.prototype.getBody=function(e,t){for(var n,r,i,a,o,s={},l=!1,u=0;u<this.parameters.length;u++)r=this.parameters[u],"undefined"!=typeof t[r.name]?"body"===r["in"]?i=t[r.name]:"formData"===r["in"]&&(s[r.name]={param:r,value:t[r.name]},n=!0):"body"===r["in"]&&(l=!0);if(l&&"undefined"==typeof i){var c=e["Content-Type"];c&&0===c.indexOf("application/json")&&(i="{}")}var p=!1;if(e["Content-Type"]&&e["Content-Type"].indexOf("multipart/form-data")>=0&&(p=!0),n&&!p){var h="";for(a in s)r=s[a].param,o=s[a].value,"undefined"!=typeof o&&(Array.isArray(o)?(""!==h&&(h+="&"),h+=this.encodeQueryCollection(r.collectionFormat,a,o)):(""!==h&&(h+="&"),h+=encodeURIComponent(a)+"="+encodeURIComponent(o)));i=h}else if(p){var f;if("function"==typeof FormData){f=new FormData,f.type="formData";for(a in s)if(r=s[a].param,o=t[a],"undefined"!=typeof o)if("[object File]"==={}.toString.apply(o))f.append(a,o);else if("file"===o.type&&o.value)f.append(a,o.value);else if(Array.isArray(o))if("multi"===r.collectionFormat){f["delete"](a);for(var d in o)f.append(a,o[d])}else f.append(a,this.encodeQueryCollection(r.collectionFormat,a,o).split("=").slice(1).join("="));else f.append(a,o);i=f}else{f={};for(a in s)if(o=t[a],Array.isArray(o)){var m,g=r.collectionFormat||"multi";if("ssv"===g)m=" ";else if("pipes"===g)m="|";else if("tsv"===g)m="\t";else{if("multi"===g){f[a]=o;break}m=","}var y;o.forEach(function(e){y?y+=m:y="",y+=e}),f[a]=y}else f[a]=o;i=f}e["Content-Type"]="multipart/form-data"}return i},u.prototype.getModelSampleJSON=function(e,t){var n,r,a;if(t=t||{},n=e instanceof Array,a=n?e[0]:e,t[a]?r=t[a].createJSONSample():this.getInlineModel(a)&&(r=this.getInlineModel(a).createJSONSample()),r){if(r=n?[r]:r,"string"==typeof r)return r;if(i.isObject(r)){var o=r;if(r instanceof Array&&r.length>0&&(o=r[0]),o.nodeName&&"Node"==typeof o){var s=(new XMLSerializer).serializeToString(o);return this.formatXml(s)}return JSON.stringify(r,null,2)}return r}},u.prototype["do"]=function(e,t,n,r,i){return this.execute(e,t,n,r,i)},u.prototype.execute=function(e,t,n,r,o){var u,c,p,h,f=e||{},d={};i.isObject(t)&&(d=t,u=n,c=r),h="undefined"!=typeof d.timeout?d.timeout:this.timeout,this.client&&(d.client=this.client),!d.requestInterceptor&&this.requestInterceptor&&(d.requestInterceptor=this.requestInterceptor),!d.responseInterceptor&&this.responseInterceptor&&(d.responseInterceptor=this.responseInterceptor),"function"==typeof t&&(u=t,c=n),this.parent.usePromise?p=l.defer():(u=u||this.parent.defaultSuccessCallback||a.log,c=c||this.parent.defaultErrorCallback||a.log),"undefined"==typeof d.useJQuery&&(d.useJQuery=this.useJQuery),"undefined"==typeof d.jqueryAjaxCache&&(d.jqueryAjaxCache=this.jqueryAjaxCache),"undefined"==typeof d.enableCookies&&(d.enableCookies=this.enableCookies);var m=this.getMissingParams(f);if(m.length>0){var

g="missing required params: "+m;return a.fail(g),this.parent.usePromise?(p.reject(g),p.promise):(c(g,o),{})}var y,v=this.getHeaderParams(f),b=this.setContentTypes(f,d),w={};for(y in v)w[y]=v[y];for(y in b)w[y]=b[y];var _=this.getBody(b,f,d),x=this.urlify(f);if(x.indexOf(".{format}")>0&&w){var A=w.Accept||w.accept;A&&A.indexOf("json")>0?x=x.replace(".{format}",".json"):A&&A.indexOf("xml")>0&&(x=x.replace(".{format}",".xml"))}var S={url:x,method:this.method.toUpperCase(),body:_,enableCookies:d.enableCookies,useJQuery:d.useJQuery,jqueryAjaxCache:d.jqueryAjaxCache,deferred:p,headers:w,clientAuthorizations:d.clientAuthorizations,on:{response:function(e){return
p?(p.resolve(e),p.promise):u(e,o)},error:function(e){return p?(p.reject(e),p.promise):c(e,o)}}};return h&&(S.timeout=h),this.clientAuthorizations.apply(S,this.operation.security),d.mock===!0?S:(new s).execute(S,d)},u.prototype.setContentTypes=function(e,t){var n,i,o=this.parameters,s=e.parameterContentType||r(this.consumes,["application/json","application/yaml"]),l=t.responseContentType||r(this.produces,["application/json","application/yaml"]),u=[],c=[],p={};for(i=0;i<o.length;i++){var h=o[i];if("formData"===h["in"])"file"===h.type?u.push(h):c.push(h);else if("header"===h["in"]&&t){var f=h.name,d=t[h.name];"undefined"!=typeof t[h.name]&&(p[f]=d)}else"body"===h["in"]&&"undefined"!=typeof e[h.name]&&(n=e[h.name])}var m=n||u.length||c.length;if("post"===this.method||"put"===this.method||"patch"===this.method||("delete"===this.method||"get"===this.method)&&m){if(t.requestContentType&&(s=t.requestContentType),c.length>0){if(s=void 0,t.requestContentType)s=t.requestContentType;else if(u.length>0)s="multipart/form-data";else if(this.consumes&&this.consumes.length>0)for(var g in this.consumes){var y=this.consumes[g];0!==y.indexOf("application/x-www-form-urlencoded")&&0!==y.indexOf("multipart/form-data")||(s=y)}"undefined"==typeof s&&(s="application/x-www-form-urlencoded")}}else s=null;return s&&this.consumes&&this.consumes.indexOf(s)===-1&&a.log("server doesn't consume "+s+", try "+JSON.stringify(this.consumes)),this.matchesAccept(l)||a.log("server can't produce "+l),s&&""!==n||"application/x-www-form-urlencoded"===s?p["Content-Type"]=s:this.consumes&&this.consumes.length>0&&"application/x-www-form-urlencoded"===this.consumes[0]&&(p["Content-Type"]=this.consumes[0]),l&&(p.Accept=l),p},u.prototype.matchesAccept=function(e){return!e||!this.produces||(this.produces.indexOf(e)!==-1||this.produces.indexOf("*/*")!==-1)},u.prototype.asCurl=function(e,t){var n={mock:!0};if("object"==typeof t)for(var r in t)n[r]=t[r];var a=this.execute(e,n);this.clientAuthorizations.apply(a,this.operation.security);var o=[];if(o.push("-X "+this.method.toUpperCase()),"undefined"!=typeof a.headers){var s;for(s in a.headers){var l=a.headers[s];"string"==typeof l&&(l=l.replace(/\'/g,"\\u0027")),o.push("--header '"+s+": "+l+"'")}}var u=!1,c=!1,p=a.headers["Content-Type"];if(p&&0===p.indexOf("application/x-www-form-urlencoded")?u=!0:p&&0===p.indexOf("multipart/form-data")&&(u=!0,c=!0),a.body){var h;if(i.isObject(a.body)){if(c){c=!0;for(var f=0;f<this.parameters.length;f++){var d=this.parameters[f];if("formData"===d["in"]){h||(h="");var m;if(m="function"==typeof FormData&&a.body instanceof FormData?a.body.getAll(d.name):a.body[d.name])if("file"===d.type)m.name&&(h+="-F "+d.name+'=@"'+m.name+'" ');else if(Array.isArray(m))if("multi"===d.collectionFormat)for(var g in m)h+="-F "+this.encodeQueryKey(d.name)+"="+m[g]+" ";else h+="-F "+this.encodeQueryCollection(d.collectionFormat,d.name,m)+" ";else h+="-F "+this.encodeQueryKey(d.name)+"="+m+" "}}}h||(h=JSON.stringify(a.body))}else h=a.body;h=h.replace(/\'/g,"%27").replace(/\n/g," \\ \n "),u||(h=h.replace(/&/g,"%26")),c?o.push(h):o.push("-d '"+h.replace(/@/g,"%40")+"'")}return"curl "+o.join(" ")+" '"+a.url+"'"},u.prototype.encodePathCollection=function(e,t,n){var r,i="",a="";for(a="ssv"===e?"%20":"tsv"===e?"%09":"pipes"===e?"|":",",r=0;r<n.length;r++)0===r?i=this.encodeQueryParam(n[r]):i+=a+this.encodeQueryParam(n[r]);return i},u.prototype.encodeQueryCollection=function(e,t,n){var

r,i="";if(e=e||"default","default"===e||"multi"===e)for(r=0;r<n.length;r++)r>0&&(i+="&"),i+=this.encodeQueryKey(t)+"="+this.encodeQueryParam(n[r]);else{var a="";if("csv"===e)a=",";else if("ssv"===e)a="%20";else if("tsv"===e)a="%09";else if("pipes"===e)a="|";else if("brackets"===e)for(r=0;r<n.length;r++)0!==r&&(i+="&"),i+=this.encodeQueryKey(t)+"[]="+this.encodeQueryParam(n[r]);if(""!==a)for(r=0;r<n.length;r++)0===r?i=this.encodeQueryKey(t)+"="+this.encodeQueryParam(n[r]):i+=a+this.encodeQueryParam(n[r])}return i},u.prototype.encodeQueryKey=function(e){return encodeURIComponent(e).replace("%5B","[").replace("%5D","]").replace("%24","$")},u.prototype.encodeQueryParam=function(e){return encodeURIComponent(e)},u.prototype.encodePathParam=function(e){return encodeURIComponent(e)}},{"../helpers":4,"../http":5,"./model":9,"lodash-compat/lang/cloneDeep":138,"lodash-compat/lang/isEmpty":141,"lodash-compat/lang/isObject":144,"lodash-compat/lang/isUndefined":148,q:157}],11:[function(e,t,n){"use strict";var r=t.exports=function(e,t,n,r){this.description=t,this.externalDocs=n,this.name=e,this.operation=r,this.operationsArray=[],this.path=e,this.tag=e};r.prototype.sort=function(){}},{}],12:[function(e,t,n){function r(){if(!s){s=!0;for(var e,t=o.length;t;){e=o,o=[];for(var n=-1;++n<t;)e[n]();t=o.length}s=!1}}function i(){}var a=t.exports={},o=[],s=!1;a.nextTick=function(e){o.push(e),s||setTimeout(r,0)},a.title="browser",a.browser=!0,a.env={},a.argv=[],a.version="",a.versions={},a.on=i,a.addListener=i,a.once=i,a.off=i,a.removeListener=i,a.removeAllListeners=i,a.emit=i,a.binding=function(e){throw new Error("process.binding is not supported")},a.cwd=function(){return"/"},a.chdir=function(e){throw new Error("process.chdir is not supported")},a.umask=function(){return 0}},{}],13:[function(e,t,n){(function(e){!function(){"use strict";function n(t){var n;return n=t instanceof e?t:new e(t.toString(),"binary"),n.toString("base64")}t.exports=n}()}).call(this,e("buffer").Buffer)},{buffer:14}],14:[function(e,t,n){function r(){return i.TYPED_ARRAY_SUPPORT?2147483647:1073741823}function i(e){return this instanceof i?(this.length=0,this.parent=void 0,"number"==typeof e?a(this,e):"string"==typeof e?o(this,e,arguments.length>1?arguments[1]:"utf8"):s(this,e)):arguments.length>1?new i(e,arguments[1]):new i(e)}function a(e,t){if(e=d(e,t<0?0:0|m(t)),!i.TYPED_ARRAY_SUPPORT)for(var n=0;n<t;n++)e[n]=0;return e}function o(e,t,n){"string"==typeof n&&""!==n||(n="utf8");var r=0|y(t,n);return e=d(e,r),e.write(t,n),e}function s(e,t){if(i.isBuffer(t))return l(e,t);if(Q(t))return u(e,t);if(null==t)throw new TypeError("must start with number, buffer, array or string");if("undefined"!=typeof ArrayBuffer){if(t.buffer instanceof ArrayBuffer)return c(e,t);if(t instanceof ArrayBuffer)return p(e,t)}return t.length?h(e,t):f(e,t)}function l(e,t){var n=0|m(t.length);return e=d(e,n),t.copy(e,0,0,n),e}function u(e,t){var n=0|m(t.length);e=d(e,n);for(var r=0;r<n;r+=1)e[r]=255&t[r];return e}function c(e,t){var n=0|m(t.length);e=d(e,n);for(var r=0;r<n;r+=1)e[r]=255&t[r];return e}function p(e,t){return i.TYPED_ARRAY_SUPPORT?(t.byteLength,e=i._augment(new Uint8Array(t))):e=c(e,new Uint8Array(t)),e}function h(e,t){var n=0|m(t.length);e=d(e,n);for(var r=0;r<n;r+=1)e[r]=255&t[r];return e}function f(e,t){var n,r=0;"Buffer"===t.type&&Q(t.data)&&(n=t.data,r=0|m(n.length)),e=d(e,r);for(var i=0;i<r;i+=1)e[i]=255&n[i];return e}function d(e,t){i.TYPED_ARRAY_SUPPORT?e=i._augment(new Uint8Array(t)):(e.length=t,e._isBuffer=!0);var n=0!==t&&t<=i.poolSize>>>1;return n&&(e.parent=G),e}function m(e){if(e>=r())throw new RangeError("Attempt to allocate Buffer larger than maximum size: 0x"+r().toString(16)+" bytes");return 0|e}function g(e,t){if(!(this instanceof g))return new g(e,t);var n=new i(e,t);return delete n.parent,n}function y(e,t){"string"!=typeof e&&(e=""+e);var n=e.length;if(0===n)return 0;for(var r=!1;;)switch(t){case"ascii":case"binary":case"raw":case"raws":return n;case"utf8":case"utf-8":return $(e).length;case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return 2*n;case"hex":return n>>>1;case"base64":return H(e).length;default:if(r)return $(e).length;t=(""+t).toLowerCase(),r=!0}}function v(e,t,n){var r=!1;if(t=0|t,n=void 0===n||n===1/0?this.length:0|n,e||(e="utf8"),t<0&&(t=0),n>this.length&&(n=this.length),n<=t)return"";for(;;)switch(e){case"hex":return C(this,t,n);case"utf8":case"utf-8":return E(this,t,n);case"ascii":return

k(this,t,n);case"binary":return T(this,t,n);case"base64":return
j(this,t,n);case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return I(this,t,n);default:if(r)throw new
TypeError("Unknown encoding: "+e);e=(e+"").toLowerCase(),r=!0}}function b(e,t,n,r){n=Number(n)||0;var
i=e.length-n;r?(r=Number(r),r>i&&(r=i)):r=i;var a=t.length;if(a%2!==0)throw new Error("Invalid hex
string");r>a/2&&(r=a/2);for(var o=0;o<r;o++){var s=parseInt(t.substr(2*o,2),16);if(isNaN(s))throw new
Error("Invalid hex string");e[n+o]=s}return o}function w(e,t,n,r){return Y($(t,e.length-n),e,n,r)}function
_(e,t,n,r){return Y(F(t),e,n,r)}function x(e,t,n,r){return _(e,t,n,r)}function A(e,t,n,r){return Y(H(t),e,n,r)}function
S(e,t,n,r){return Y(V(t,e.length-n),e,n,r)}function j(e,t,n){return
0===t&&n===e.length?J.fromByteArray(e):J.fromByteArray(e.slice(t,n))}function
E(e,t,n){n=Math.min(e.length,n);for(var r=[],i=t;i<n;){var
a=e[i],o=null,s=a>239?4:a>223?3:a>191?2:1;if(i+s<=n){var l,u,c,p;switch(s){case 1:a<128&&(o=a);break;case
2:l=e[i+1],128===(192&l)&&(p=(31&a)<<6|63&l,p>127&&(o=p));break;case
3:l=e[i+1],u=e[i+2],128===(192&l)&&128===(192&u)&&(p=(15&a)<<12|(63&l)<<6|63&u,p>2047&&(p<55296||p>57343)&&(o=p));break;case
4:l=e[i+1],u=e[i+2],c=e[i+3],128===(192&l)&&128===(192&u)&&128===(192&c)&&(p=(15&a)<<18|(63&l)<<12|(63&u)<<6|63&c,p>65535&&p<1114112&&(o=p))}}null===o?(o=65533,s=1):o>65535&&(o-=65536,r.push(o>>>10&1023|55296),o=56320|1023&o),r.push(o),i+=s}return O(r)}function O(e){var
t=e.length;if(t<=K)return String.fromCharCode.apply(String,e);for(var
n="",r=0;r<t;)n+=String.fromCharCode.apply(String,e.slice(r,r+=K));return n}function k(e,t,n){var
r="";n=Math.min(e.length,n);for(var i=t;i<n;i++)r+=String.fromCharCode(127&e[i]);return r}function T(e,t,n){var
r="";n=Math.min(e.length,n);for(var i=t;i<n;i++)r+=String.fromCharCode(e[i]);return r}function C(e,t,n){var
r=e.length;(!t||t<0)&&(t=0),(!n||n<0||n>r)&&(n=r);for(var i="",a=t;a<n;a++)i+=z(e[a]);return i}function
I(e,t,n){for(var r=e.slice(t,n),i="",a=0;a<r.length;a+=2)i+=String.fromCharCode(r[a]+256*r[a+1]);return
i}function D(e,t,n){if(e%1!==0||e<0)throw new RangeError("offset is not uint");if(e+t>n)throw new
RangeError("Trying to access beyond buffer length")}function L(e,t,n,r,a,o){if(!i.isBuffer(e))throw new
TypeError("buffer must be a Buffer instance");if(t>a||t<o)throw new RangeError("value is out of
bounds");if(n+r>e.length)throw new RangeError("index out of range")}function
M(e,t,n,r){t<0&&(t=65535+t+1);for(var i=0,a=Math.min(e.length-n,2);i<a;i++)e[n+i]=(t&255<<8*(r?i:1-i))>>>8*(r?i:1-i)}function R(e,t,n,r){t<0&&(t=4294967295+t+1);for(var i=0,a=Math.min(e.length-n,4);i<a;i++)e[n+i]=t>>>8*(r?i:3-i)&255}function U(e,t,n,r,i,a){if(t>i||t<a)throw new RangeError("value is out of bounds");if(n+r>e.length)throw new RangeError("index out of range");if(n<0)throw new RangeError("index out of range")}function P(e,t,n,r,i){return i||U(e,t,n,4,3.4028234663852886e38,-3.4028234663852886e38),W.write(e,t,n,r,23,4),n+4}function q(e,t,n,r,i){return
i||U(e,t,n,8,1.7976931348623157e308,-1.7976931348623157e308),W.write(e,t,n,r,52,8),n+8}function
B(e){if(e=N(e).replace(Z,""),e.length<2)return"";for(;e.length%4!==0;)e+="=";return e}function N(e){return
e.trim?e.trim():e.replace(/^\s+|\s+$/g,"")}function z(e){return e<16?"0"+e.toString(16):e.toString(16)}function
$(e,t){t=t||1/0;for(var
n,r=e.length,i=null,a=[],o=0;o<r;o++){if(n=e.charCodeAt(o),n>55295&&n<57344){if(!i){if(n>56319){(t-=3)>-1&&a.push(239,191,189);continue}if(o+1===r){(t-=3)>-1&&a.push(239,191,189);continue}i=n;continue}if(n<56320){(t-=3)>-1&&a.push(239,191,189),i=n;continue}n=i-55296<<10|n-56320|65536}else i&&(t-=3)>-1&&a.push(239,191,189);if(i=null,n<128){if((t-=1)<0)break;a.push(n)}else if(n<2048){if((t-=2)<0)break;a.push(n>>6|192,63&n|128)}else if(n<65536){if((t-=3)<0)break;a.push(n>>12|224,n>>6&63|128,63&n|128)}else{if(!(n<1114112))throw new Error("Invalid code point");if((t-=4)<0)break;a.push(n>>18|240,n>>12&63|128,n>>6&63|128,63&n|128)}}return a}function
F(e){for(var t=[],n=0;n<e.length;n++)t.push(255&e.charCodeAt(n));return
t}function V(e,t){for(var n,r,i,a=[],o=0;o<e.length&&!((t-=2)<0);o++)n=e.charCodeAt(o),r=n>>8,i=n%256,a.push(i),a.push(r);return a}function H(e){return
J.toByteArray(B(e))}function Y(e,t,n,r){for(var i=0;i<r&&!(i+n>=t.length||i>=e.length);i++)t[i+n]=e[i];return i}var

J=e("base64-js"),W=e("ieee754"),Q=e("is-
array");n.Buffer=i,n.SlowBuffer=g,n.INSPECT_MAX_BYTES=50,i.poolSize=8192;var
G={};i.TYPED_ARRAY_SUPPORT=function(){function e(){}try{var t=new Uint8Array(1);return
t.foo=function(){return 42},t.constructor=e,42===t.foo()&&t.constructor===e&&"function"==typeof
t.subarray&&0===t.subarray(1,1).byteLength}catch(n){return!1}}(),i.isBuffer=function(e){return!(null==e||!e._isB
uffer)},i.compare=function(e,t){if(!i.isBuffer(e)||!i.isBuffer(t))throw new TypeError("Arguments must be
Buffers");if(e===t)return 0;for(var n=e.length,r=t.length,a=0,o=Math.min(n,r);a<o&&e[a]===t[a];)++a;return
a!==o&&(n=e[a],r=t[a]),n<r?-
1:r<n?1:0},i.isEncoding=function(e){switch(String(e).toLowerCase()){case"hex":case"utf8":case"utf-
8":case"ascii":case"binary":case"base64":case"raw":case"ucs2":case"ucs-2":case"utf16le":case"utf-
16le":return!0;default:return!1}},i.concat=function(e,t){if(!Q(e))throw
new TypeError("list argument must be an Array of Buffers.");if(0===e.length)return new i(0);var n;if(void
0===t)for(t=0,n=0;n<e.length;n++)t+=e[n].length;var r=new i(t),a=0;for(n=0;n<e.length;n++){var
o=e[n];o.copy(r,a),a+=o.length}return r},i.byteLength=y,i.prototype.length=void 0,i.prototype.parent=void
0,i.prototype.toString=function(){var e=0|this.length;return
0===e?"":0===arguments.length?E(this,0,e):v.apply(this,arguments)},i.prototype.equals=function(e){if(!i.isBuffer(
e))throw new TypeError("Argument must be a Buffer");return
this===e||0===i.compare(this,e)},i.prototype.inspect=function(){var e="",t=n.INSPECT_MAX_BYTES;return
this.length>0&&(e=this.toString("hex",0,t).match(/.{2}/g).join(" "),this.length>t&&(e+=" ... ")),"<Buffer
"+e+">"},i.prototype.compare=function(e){if(!i.isBuffer(e))throw
new TypeError("Argument must be a Buffer");return
this===e?0:i.compare(this,e)},i.prototype.indexOf=function(e,t){function n(e,t,n){for(var r=-
1,i=0;n+i<e.length;i++)if(e[n+i]===t[r===-1?0:i-r]){if(r===-1&&(r=i),i-r+1===t.length)return n+r}else r=-
1;return-1}if(t>2147483647?t=2147483647:t<-2147483648&&(t=-2147483648),t>>=0,0===this.length)return-
1;if(t>=this.length)return-1;if(t<0&&(t=Math.max(this.length+t,0)),"string"==typeof e)return 0===e.length?-
1:String.prototype.indexOf.call(this,e,t);if(i.isBuffer(e))return n(this,e,t);if("number"==typeof e)return
i.TYPED_ARRAY_SUPPORT&&"function"===Uint8Array.prototype.indexOf?Uint8Array.prototype.indexOf.call
(this,e,t):n(this,[e],t);throw new TypeError("val must be string, number or
Buffer")},i.prototype.get=function(e){return console.log(".get() is deprecated. Access using array indexes
instead."),this.readUInt8(e)},i.prototype.set=function(e,t){return console.log(".set() is deprecated. Access using
array indexes
instead."),this.writeUInt8(e,t)},i.prototype.write=function(e,t,n,r){if(void 0===t)r="utf8",n=this.length,t=0;else
if(void 0===n&&"string"==typeof t)r=t,n=this.length,t=0;else if(isFinite(t))t=0|t,isFinite(n)?(n=0|n,void
0===r&&(r="utf8")):(r=n,n=void 0);else{var i=r;r=t,t=0|n,n=i}var a=this.length-t;if((void
0===n||n>a)&&(n=a),e.length>0&&(n<0||t<0)||t>this.length)throw new RangeError("attempt to write outside buffer
bounds");r||(r="utf8");for(var o=!1;;)switch(r){case"hex":return b(this,e,t,n);case"utf8":case"utf-8":return
w(this,e,t,n);case"ascii":return _(this,e,t,n);case"binary":return x(this,e,t,n);case"base64":return
A(this,e,t,n);case"ucs2":case"ucs-2":case"utf16le":case"utf-16le":return S(this,e,t,n);default:if(o)throw new
TypeError("Unknown encoding:
"+r);r=(""+r).toLowerCase(),o=!0}},i.prototype.toJSON=function(){return{type:"Buffer",data:Array.prototype.slice
.call(this._arr||this,0)}};var K=4096;i.prototype.slice=function(e,t){var n=this.length;e=~~e,t=void
0===t?n:~~t,e<0?(e+=n,e<0&&(e=0)):e>n&&(e=n),t<0?(t+=n,t<0&&(t=0)):t>n&&(t=n),t<e&&(t=e);var
r;if(i.TYPED_ARRAY_SUPPORT)r=i._augment(this.subarray(e,t));else{var a=t-e;r=new i(a,(void 0));for(var
o=0;o<a;o++)r[o]=this[o+e]}return
r.length&&(r.parent=this.parent||this),r},i.prototype.readUIntLE=function(e,t,n){e=0|e,t=0|t,n||D(e,t,this.length);for(
var r=this[e],i=1,a=0;++a<t&&(i*=256);)r+=this[e+a]*i;return
r},i.prototype.readUIntBE=function(e,t,n){e=0|e,t=0|t,n||D(e,t,this.length);for(var r=this[e+--
t],i=1;t>0&&(i*=256);)r+=this[e+--t]*i;return r},i.prototype.readUInt8=function(e,t){return

t||D(e,1,this.length),this[e]},i.prototype.readUInt16LE=function(e,t){return
t||D(e,2,this.length),this[e]|this[e+1]<<8},i.prototype.readUInt16BE=function(e,t){return
t||D(e,2,this.length),this[e]<<8|this[e+1]},i.prototype.readUInt32LE=function(e,t){return
t||D(e,4,this.length),(this[e]|this[e+1]<<8|this[e+2]<<16)+16777216*this[e+3]},i.prototype.readUInt32BE=function(e,t){return
t||D(e,4,this.length),16777216*this[e]+(this[e+1]<<16|this[e+2]<<8|this[e+3])},i.prototype.readIntLE=function(e,t,n){e=0|e,t=0|t,n||D(e,t,this.length);for(var
r=this[e],i=1,a=0;++a<t&&(i*=256);)r+=this[e+a]*i;return i*=128,r>=i&&(r-=Math.pow(2,8*t)),r},i.prototype.readIntBE=function(e,t,n){e=0|e,t=0|t,n||D(e,t,this.length);for(var
r=t,i=1,a=this[e+--r];r>0&&(i*=256);)a+=this[e+--r]*i;return i*=128,a>=i&&(a-=Math.pow(2,8*t)),a},i.prototype.readInt8=function(e,t){return t||D(e,1,this.length),128&this[e]?(255-this[e]+1)*-1:this[e]},i.prototype.readInt16LE=function(e,t){t||D(e,2,this.length);var n=this[e]|this[e+1]<<8;return
32768&n?4294901760|n:n},i.prototype.readInt16BE=function(e,t){t||D(e,2,this.length);var
n=this[e+1]|this[e]<<8;return 32768&n?4294901760|n:n},i.prototype.readInt32LE=function(e,t){return
t||D(e,4,this.length),this[e]|this[e+1]<<8|this[e+2]<<16|this[e+3]<<24},i.prototype.readInt32BE=function(e,t){return
t||D(e,4,this.length),this[e]<<24|this[e+1]<<16|this[e+2]<<8|this[e+3]},i.prototype.readFloatLE=function(e,t){return
t||D(e,4,this.length),W.read(this,e,!0,23,4)},i.prototype.readFloatBE=function(e,t){return
t||D(e,4,this.length),W.read(this,e,!1,23,4)},i.prototype.readDoubleLE=function(e,t){return
t||D(e,8,this.length),W.read(this,e,!0,52,8)},i.prototype.readDoubleBE=function(e,t){return
t||D(e,8,this.length),W.read(this,e,!1,52,8)},i.prototype.writeUIntLE=function(e,t,n,r){e=+e,t=0|t,n=0|n,r||L(this,e,t,n,Math.pow(2,8*n),0);var i=1,a=0;for(this[t]=255&e;++a<n&&(i*=256);)this[t+a]=e/i&255;return
t+n},i.prototype.writeUIntBE=function(e,t,n,r){e=+e,t=0|t,n=0|n,r||L(this,e,t,n,Math.pow(2,8*n),0);var i=n-1,a=1;for(this[t+i]=255&e;--i>=0&&(a*=256);)this[t+i]=e/a&255;return
t+n},i.prototype.writeUInt8=function(e,t,n){return
e=+e,t=0|t,n||L(this,e,t,1,255,0),i.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),this[t]=e,t+1},i.prototype.writeUInt16LE=function(e,t,n){return
e=+e,t=0|t,n||L(this,e,t,2,65535,0),i.TYPED_ARRAY_SUPPORT?(this[t]=e,this[t+1]=e>>>8):M(this,e,t,!0),t+2},i.prototype.writeUInt16BE=function(e,t,n){return
e=+e,t=0|t,n||L(this,e,t,2,65535,0),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=e):M(this,e,t,!1),t+2},i.prototype.writeUInt32LE=function(e,t,n){return
e=+e,t=0|t,n||L(this,e,t,4,4294967295,0),i.TYPED_ARRAY_SUPPORT?(this[t+3]=e>>>24,this[t+2]=e>>>16,this[t+1]=e>>>8,this[t]=e):R(this,e,t,!0),t+4},i.prototype.writeUInt32BE=function(e,t,n){return
e=+e,t=0|t,n||L(this,e,t,4,4294967295,0),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this[t+2]=e>>>8,this[t+3]=e):R(this,e,t,!1),t+4},i.prototype.writeIntLE=function(e,t,n,r){if(e=+e,t=0|t,!r){var
i=Math.pow(2,8*n-1);L(this,e,t,n,i-1,-i)}var
a=0,o=1,s=e<0?1:0;for(this[t]=255&e;++a<n&&(o*=256);)this[t+a]=(e/o>>0)-s&255;return
t+n},i.prototype.writeIntBE=function(e,t,n,r){if(e=+e,t=0|t,!r){var i=Math.pow(2,8*n-1);L(this,e,t,n,i-1,-i)}var a=n-1,o=1,s=e<0?1:0;for(this[t+a]=255&e;--a>=0&&(o*=256);)this[t+a]=(e/o>>0)-s&255;return
t+n},i.prototype.writeInt8=function(e,t,n){return e=+e,t=0|t,n||L(this,e,t,1,127,-128),i.TYPED_ARRAY_SUPPORT||(e=Math.floor(e)),e<0&&(e=255+e+1),this[t]=e,t+1},i.prototype.writeInt16LE=function(e,t,n){return
e=+e,t=0|t,n||L(this,e,t,2,32767,-32768),i.TYPED_ARRAY_SUPPORT?(this[t]=e,this[t+1]=e>>>8):M(this,e,t,!0),t+2},i.prototype.writeInt16BE=function(e,t,n){return e=+e,t=0|t,n||L(this,e,t,2,32767,-32768),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>8,this[t+1]=e):M(this,e,t,!1),t+2},i.prototype.writeInt32LE=function(e,t,n){return e=+e,t=0|t,n||L(this,e,t,4,2147483647,-2147483648),i.TYPED_ARRAY_SUPPORT?(this[t]=e,this[t+1]=e>>>8,this[t+2]=e>>>16,this[t+3]=e>>>24):R(this,e,t,!0),t+4},i.prototype.writeInt32BE=function(e,t,n){return e=+e,t=0|t,n||L(this,e,t,4,2147483647,-

2147483648),e<0&&(e=4294967295+e+1),i.TYPED_ARRAY_SUPPORT?(this[t]=e>>>24,this[t+1]=e>>>16,this[t+2]=e>>>8,this[t+3]=e):R(this,e,t,!1),t+4},i.prototype.writeFloatLE=function(e,t,n){return P(this,e,t,!0,n)},i.prototype.writeFloatBE=function(e,t,n){return P(this,e,t,!1,n)},i.prototype.writeDoubleLE=function(e,t,n){return q(this,e,t,!0,n)},i.prototype.writeDoubleBE=function(e,t,n){return q(this,e,t,!1,n)},i.prototype.copy=function(e,t,n,r){if(n||(n=0),r||0===r||(r=this.length),t>=e.length&&(t=e.length),t||(t=0),r>0&&r<n&&(r=n),r===n)return 0;if(0===e.length||0===this.length)return 0;if(t<0)throw new RangeError("targetStart out of bounds");if(n<0||n>=this.length)throw new RangeError("sourceStart out of bounds");if(r<0)throw new RangeError("sourceEnd out of bounds");r>this.length&&(r=this.length),e.length-t<r-n&&(r=e.length-t+n);var a,o=r-n;if(this===e&&n<t&&t<r)for(a=o-1;a>=0;a--)e[a+t]=this[a+n];else if(o<1e3||!i.TYPED_ARRAY_SUPPORT)for(a=0;a<o;a++)e[a+t]=this[a+n];else e._set(this.subarray(n,n+o),t);return o},i.prototype.fill=function(e,t,n){if(e||(e=0),t||(t=0),n||(n=this.length),n<t)throw new RangeError("end < start");if(n!==t&&0!==this.length){if(t<0||t>=this.length)throw new RangeError("start out of bounds");if(n<0||n>this.length)throw new RangeError("end out of bounds");var r;if("number"==typeof e)for(r=t;r<n;r++)this[r]=e;else{var i=$(e.toString()),a=i.length;for(r=t;r<n;r++)this[r]=i[r%a]}return this}},i.prototype.toArrayBuffer=function(){if("undefined"!=typeof Uint8Array){if(i.TYPED_ARRAY_SUPPORT)return new i(this).buffer;for(var e=new Uint8Array(this.length),t=0,n=e.length;t<n;t+=1)e[t]=this[t];return e.buffer}throw new TypeError("Buffer.toArrayBuffer not supported in this browser")};var X=i.prototype;i._augment=function(e){return e.constructor=i,e._isBuffer=!0,e._set=e.set,e.get=X.get,e.set=X.set,e.write=X.write,e.toString=X.toString,e.toLocaleString=X.toString,e.toJSON=X.toJSON,e.equals=X.equals,e.compare=X.compare,e.indexOf=X.indexOf,e.copy=X.copy,e.slice=X.slice,e.readUIntLE=X.readUIntLE,e.readUIntBE=X.readUIntBE,e.readUInt8=X.readUInt8,e.readUInt16LE=X.readUInt16LE,e.readUInt16BE=X.readUInt16BE,e.readUInt32LE=X.readUInt32LE,e.readUInt32BE=X.readUInt32BE,e.readIntLE=X.readIntLE,e.readIntBE=X.readIntBE,e.readInt8=X.readInt8,e.readInt16LE=X.readInt16LE,e.readInt16BE=X.readInt16BE,e.readInt32LE=X.readInt32LE,e.readInt32BE=X.readInt32BE,e.readFloatLE=X.readFloatLE,e.readFloatBE=X.readFloatBE,e.readDoubleLE=X.readDoubleLE,e.readDoubleBE=X.readDoubleBE,e.writeUInt8=X.writeUInt8,e.writeUIntLE=X.writeUIntLE,e.writeUIntBE=X.writeUIntBE,e.writeUInt16LE=X.writeUInt16LE,e.writeUInt16BE=X.writeUInt16BE,e.writeUInt32LE=X.writeUInt32LE,e.writeUInt32BE=X.writeUInt32BE,e.writeIntLE=X.writeIntLE,e.writeIntBE=X.writeIntBE,e.writeInt8=X.writeInt8,e.writeInt16LE=X.writeInt16LE,e.writeInt16BE=X.writeInt16BE,e.writeInt32LE=X.writeInt32LE,e.writeInt32BE=X.writeInt32BE,e.writeFloatLE=X.writeFloatLE,e.writeFloatBE=X.writeFloatBE,e.writeDoubleLE=X.writeDoubleLE,e.writeDoubleBE=X.writeDoubleBE,e.fill=X.fill,e.inspect=X.inspect,e.toArrayBuffer=X.toArrayBuffer,e};var Z=/[^+\/0-9A-Za-z-_]/g},{"base64-js":15,ieee754:16,"is-array":17}],15:[function(e,t,n){var r="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/";!function(e){"use strict";function t(e){var t=e.charCodeAt(0);return t===o||t===p?62:t===s||t===h?63:t<l?-1:t<l+10?t-l+26+26:t<c+26?t-c:t<u+26?t-u+26:void 0}function n(e){function n(e){u[p++]=e}var r,i,o,s,l,u;if(e.length%4>0)throw new Error("Invalid string. Length must be a multiple of 4");var c=e.length;l="="===e.charAt(c-2)?2:"="===e.charAt(c-1)?1:0,u=new a(3*e.length/4-l),o=l>0?e.length-4:e.length;var p=0;for(r=0,i=0;r<o;r+=4,i+=3)s=t(e.charAt(r))<<18|t(e.charAt(r+1))<<12|t(e.charAt(r+2))<<6|t(e.charAt(r+3)),n((16711680&s)>>16),n((65280&s)>>8),n(255&s);return 2===l?(s=t(e.charAt(r))<<2|t(e.charAt(r+1))>>4,n(255&s)):1===l&&(s=t(e.charAt(r))<<10|t(e.charAt(r+1))<<4|t(e.charAt(r+2))>>2,n(s>>8&255),n(255&s)),u}function i(e){function t(e){return r.charAt(e)}function n(e){return t(e>>18&63)+t(e>>12&63)+t(e>>6&63)+t(63&e)}var i,a,o,s=e.length%3,l="";for(i=0,o=e.length-s;i<o;i+=3)a=(e[i]<<16)+(e[i+1]<<8)+e[i+2],l+=n(a);switch(s){case 1:a=e[e.length-1],l+=t(a>>2),l+=t(a<<4&63),l+="==";break;case 2:a=(e[e.length-2]<<8)+e[e.length-1],l+=t(a>>10),l+=t(a>>4&63),l+=t(a<<2&63),l+="="}return

l}var a="undefined"!=typeof Uint8Array?Uint8Array:Array,o="+".charCodeAt(0),s="/".charCodeAt(0),l="0".charCodeAt(0),u="a".charCodeAt(0),c="A".charCodeAt(0),p="-".charCodeAt(0),h="_".charCodeAt(0);e.toByteArray=n,e.fromByteArray=i}("undefined"==typeof n?this.base64js={}:n)},{}],16:[function(e,t,n){n.read=function(e,t,n,r,i){var a,o,s=8*i-r-1,l=(1<<s)-1,u=l>>1,c=-7,p=n?i-1:0,h=n?-1:1,f=e[t+p];for(p+=h,a=f&(1<<-c)-1,f>>=-c,c+=s;c>0;a=256*a+e[t+p],p+=h,c-=8);for(o=a&(1<<-c)-1,a>>=-c,c+=r;c>0;o=256*o+e[t+p],p+=h,c-=8);if(0===a)a=1-u;else{if(a===l)return o?NaN:(f?-1:1)*(1/0);o+=Math.pow(2,r),a-=u}return(f?-1:1)*o*Math.pow(2,a-r)},n.write=function(e,t,n,r,i,a){var o,s,l,u=8*a-i-1,c=(1<<u)-1,p=c>>1,h=23===i?Math.pow(2,-24)-Math.pow(2,-77):0,f=r?0:a-1,d=r?1:-1,m=t<0||0===t&&1/t<0?1:0;for(t=Math.abs(t),isNaN(t)||t===1/0?(s=isNaN(t)?1:0,o=c):(o=Math.floor(Math.log(t)/Math.LN2),t*(l=Math.pow(2,-o))<1&&(o--,l*=2),t+=o+p>=1?h/l:h*Math.pow(2,1-p),t*l>=2&&(o++,l/=2),o+p>=c?(s=0,o=c):o+p>=1?(s=(t*l-1)*Math.pow(2,i),o+=p):(s=t*Math.pow(2,p-1)*Math.pow(2,i),o=0));i>=8;e[n+f]=255&s,f+=d,s/=256,i-=8);for(o=o<<i|s,u+=i;u>0;e[n+f]=255&o,f+=d,o/=256,u-=8);e[n+f-d]|=128*m}},{}],17:[function(e,t,n){var r=Array.isArray,i=Object.prototype.toString;t.exports=r||function(e){return!!e&&"[object Array]"==i.call(e)}},{}],18:[function(e,t,n){!function(){"use strict";function e(t,n,r,i){return this instanceof e?(this.domain=t||void 0,this.path=n||"/",this.secure=!!r,this.script=!!i,this):new e(t,n,r,i)}function t(e,n,r){return e instanceof t?e:this instanceof t?(this.name=null,this.value=null,this.expiration_date=1/0,this.path=String(r||"/"),this.explicit_path=!1,this.domain=n||null,this.explicit_domain=!1,this.secure=!1,this.noscript=!1,e&&this.parse(e,n,r),this):new t(e,n,r)}function r(){var e,n,i;return this instanceof r?(e=Object.create(null),this.setCookie=function(r,a,o){var s,l;if(r=new t(r,a,o),s=r.expiration_date<=Date.now(),void 0!==e[r.name]){for(n=e[r.name],l=0;l<n.length;l+=1)if(i=n[l],i.collidesWith(r))return s?(n.splice(l,1),0===n.length&&delete e[r.name],!1):(n[l]=r,r);return!s&&(n.push(r),r)}return!s&&(e[r.name]=[r],e[r.name])},this.getCookie=function(t,r){var i,a;if(n=e[t])for(a=0;a<n.length;a+=1)if(i=n[a],i.expiration_date<=Date.now())0===n.length&&delete e[i.name];else if(i.matches(r))return i},this.getCookies=function(t){var n,r,i=[];for(n in e)r=this.getCookie(n,t),r&&i.push(r);return i.toString=function(){return i.join(":")},i.toValueString=function(){return i.map(function(e){return e.toValueString()}).join(";")},i},this):new r}n.CookieAccessInfo=e,n.Cookie=t,t.prototype.toString=function(){var e=[this.name+"="+this.value];return this.expiration_date!==1/0&&e.push("expires="+new Date(this.expiration_date).toGMTString()),this.domain&&e.push("domain="+this.domain),this.path&&e.push("path="+this.path),this.secure&&e.push("secure"),this.noscript&&e.push("httponly"),e.join("; ")},t.prototype.toValueString=function(){return this.name+"="+this.value};var i=/[:](?=\s*[a-zA-Z0-9_\-]+\s*[=])/g;t.prototype.parse=function(e,n,r){if(this instanceof t){var i,a=e.split(";").filter(function(e){return!!e}),o=a[0].match(/([^=]+)=([\s\S]*)/),s=o[1],l=o[2];for(this.name=s,this.value=l,i=1;i<a.length;i+=1)switch(o=a[i].match(/([^=]+)(?:=([\s\S]*))?/),s=o[1].trim().toLowerCase(),l=o[2],s){case"httponly":this.noscript=!0;break;case"expires":this.expiration_date=l?Number(Date.parse(l)):1/0;break;case"path":this.path=l?l.trim():"",this.explicit_path=!0;break;case"domain":this.domain=l?l.trim():"",this.explicit_domain=!!this.domain;break;case"secure":this.secure=!0}return this.explicit_path||(this.path=r||"/"),this.explicit_domain||(this.domain=n),this}return(new t).parse(e,n,r)},t.prototype.matches=function(e){return!(this.noscript&&e.script||this.secure&&!e.secure||!this.collidesWith(e))},t.prototype.collidesWith=function(e){if(this.path&&!e.path||this.domain&&!e.domain)return!1;if(this.path&&0!==e.path.indexOf(this.path))return!1;if(this.explicit_path&&0!==e.path.indexOf(this.path))return!1;var t=e.domain&&e.domain.replace(/^[\.]/,""),n=this.domain&&this.domain.replace(/^[\.]/,"");if(n===t)return!0;if(n){if(!this.explicit_domain)return!1;var r=t.indexOf(n);return r!==-1&&r===t.length-n.length}return!0},n.CookieJar=r,r.prototype.setCookies=function(e,n,r){e=Array.isArray(e)?e:e.split(i);var

a,o,s=[];for(e=e.map(function(e){return new
t(e,n,r)}),a=0;a<e.length;a+=1)o=e[a],this.setCookie(o,n,r)&&s.push(o);return s}()},{}],19:[function(e,t,n){"use
strict";var r=e("./lib/js-yaml.js");t.exports=r},{"./lib/js-yaml.js":20}],20:[function(e,t,n){"use strict";function
r(e){return function(){throw new Error("Function "+e+" is deprecated and cannot be used.")}}var i=e("./js-
yaml/loader"),a=e("./js-yaml/dumper");t.exports.Type=e("./js-yaml/type"),t.exports.Schema=e("./js-
yaml/schema"),t.exports.FAILSAFE_SCHEMA=e("./js-yaml/schema/failsafe"),t.exports.JSON_SCHEMA=e("./js-
yaml/schema/json"),t.exports.CORE_SCHEMA=e("./js-
yaml/schema/core"),t.exports.DEFAULT_SAFE_SCHEMA=e("./js-
yaml/schema/default_safe"),t.exports.DEFAULT_FULL_SCHEMA=e("./js-
yaml/schema/default_full"),t.exports.load=i.load,t.exports.loadAll=i.loadAll,t.exports.safeLoad=i.safeLoad,t.exports
.safeLoadAll=i.safeLoadAll,t.exports.dump=a.dump,t.exports.safeDump=a.safeDump,t.exports.YAMLException=e(
"./js-yaml/exception"),t.exports.MINIMAL_SCHEMA=e("./js-
yaml/schema/failsafe"),t.exports.SAFE_SCHEMA=e("./js-
yaml/schema/default_safe"),t.exports.DEFAULT_SCHEMA=e("./js-
yaml/schema/default_full"),t.exports.scan=r("scan"),t.exports.parse=r("parse"),t.exports.compose=r("compose"),t.ex
ports.addConstructor=r("addConstructor")},{"./js-yaml/dumper":22,"./js-yaml/exception":23,"./js-
yaml/loader":24,"./js-yaml/schema":26,"./js-yaml/schema/core":27,"./js-yaml/schema/default_full":28,"./js-
yaml/schema/default_safe":29,"./js-yaml/schema/failsafe":30,"./js-yaml/schema/json":31,"./js-
yaml/type":32}],21:[function(e,t,n){"use
strict";function r(e){return"undefined"==typeof
e||null===e}function i(e){return"object"==typeof e&&null!==e}function a(e){return
Array.isArray(e)?e:r(e)?[]:[e]}function o(e,t){var
n,r,i,a;if(t)for(a=Object.keys(t),n=0,r=a.length;n<r;n+=1)i=a[n],e[i]=t[i];return e}function s(e,t){var
n,r="";for(n=0;n<t;n+=1)r+=e;return r}function l(e){return
0===e&&Number.NEGATIVE_INFINITY===1/e}t.exports.isNothing=r,t.exports.isObject=i,t.exports.toArray=a,t.
exports.repeat=s,t.exports.isNegativeZero=l,t.exports.extend=o},{}],22:[function(e,t,n){"use strict";function
r(e,t){var
n,r,i,a,o,s,l;if(null===t)return{};for(n={},r=Object.keys(t),i=0,a=r.length;i<a;i+=1)o=r[i],s=String(t[o]),"!!"===o.sli
ce(0,2)&&(o="tag:yaml.org,2002:"+o.slice(2)),l=e.compiledTypeMap[o],l&&R.call(l.styleAliases,s)&&(s=l.styleAl
iases[s]),n[o]=s;return n}function i(e){var t,n,r;if(t=e.toString(16).toUpperCase(),e<=255)n="x",r=2;else
if(e<=65535)n="u",r=4;else{if(!(e<=4294967295))throw new I("code point within a string may not be greater than
0xFFFFFFFF");n="U",r=8}return"\\"+n+C.repeat("0",r-t.length)+t}function
a(e){this.schema=e.schema||D,this.indent=Math.max(1,e.indent||2),this.skipInvalid=e.skipInvalid||!1,this.flowLevel=
C.isNothing(e.flowLevel)?-
1:e.flowLevel,this.styleMap=r(this.schema,e.styles||null),this.sortKeys=e.sortKeys||!1,this.lineWidth=e.lineWidth||8
0,this.noRefs=e.noRefs||!1,this.noCompatMode=e.noCompatMode||!1,this.implicitTypes=this.schema.compiledImpl
icit,this.explicitTypes=this.schema.compiledExplicit,this.tag=null,this.result="",this.duplicates=[],this.usedDuplicate
s=null}function o(e,t){for(var n,r=C.repeat(" ",t),i=0,a=-1,o="",s=e.length;i<s;)a=e.indexOf("\n",i),a===-
1?(n=e.slice(i),i=s):(n=e.slice(i,a+1),i=a+1),n.length&&"\n"!==n&&(o+=r),o+=n;return o}function
s(e,t){return"\n"+C.repeat(" ",e.indent*t)}function l(e,t){var
n,r,i;for(n=0,r=e.implicitTypes.length;n<r;n+=1)if(i=e.implicitTypes[n],i.resolve(t))return!0;return!1}function
u(e){return e===q||e===U}function c(e){return
32<=e&&e<=126||161<=e&&e<=55295&&8232!==e&&8233!==e||57344<=e&&e<=65533&&65279!==e||65536<
=e&&e<=1114111}function
p(e){return c(e)&&65279!==e&&e!==Y&&e!==X&&e!==Z&&e!==te&&e!==re&&e!==W&&e!==z}function
h(e){return
c(e)&&65279!==e&&!u(e)&&e!==J&&e!==G&&e!==W&&e!==Y&&e!==X&&e!==Z&&e!==te&&e!==re&&e!
==z&&e!==F&&e!==H&&e!==B&&e!==ne&&e!==Q&&e!==V&&e!==N&&e!==$&&e!==K&&e!==ee}functio

n f(e,t,n,r,i){var a,o,s=!1,l=!1,f=r!==-1,d=-1,m=h(e.charCodeAt(0))&&!u(e.charCodeAt(e.length-1));if(t)for(a=0;a<e.length;a++){if(o=e.charCodeAt(a),!c(o))return ce;m=m&&p(o)}else{for(a=0;a<e.length;a++){if(o=e.charCodeAt(a),o===P)s=!0,f&&(l=l||a-d-1>r&&" "!==e[d+1],d=a);else if(!c(o))return ce;m=m&&p(o)}l=l||f&&a-d-1>r&&" "!==e[d+1]}return s||l?" "===e[0]&&n>9?ce:l?ue:le:m&&!i(e)?oe:se}function d(e,t,n,r){e.dump=function(){function i(t){return l(e,t)}if(0===t.length)return"''";if(!e.noCompatMode&&ae.indexOf(t)!==-1)return"'"+t+"'";var a=e.indent*Math.max(1,n),s=e.lineWidth===-1?-1:Math.max(Math.min(e.lineWidth,40),e.lineWidth-a),u=r||e.flowLevel>-1&&n>=e.flowLevel;switch(f(t,u,e.indent,s,i)){case oe:return t;case se:return"'"+t.replace(/'/g,"''")+"'";case le:return"|"+m(t,e.indent)+g(o(t,a));case ue:return">"+m(t,e.indent)+g(o(y(t,s),a));case ce:return'"'+b(t,s)+'"';default:throw new I("impossible error: invalid scalar style")}}()}function m(e,t){var n=" "===e[0]?String(t):"",r="\n"===e[e.length-1],i=r&&("\n"===e[e.length-2]||"\n"===e),a=i?"+":r?"":"-";return n+a+"\n"}function g(e){return"\n"===e[e.length-1]?e.slice(0,-1):e}function y(e,t){for(var n,r,i=/(\n+)([^\n]*)/g,a=function(){var n=e.indexOf("\n");return n=n!==-1?n:e.length,i.lastIndex=n,v(e.slice(0,n),t)}(),o="\n"===e[0]||" "===e[0];r=i.exec(e);){var s=r[1],l=r[2];n=" "===l[0],a+=s+(o||n||""===l?"":"\n")+v(l,t),o=n}return a}function v(e,t){if(""===e||" "===e[0])return e;for(var n,r,i=/ [^]/g,a=0,o=0,s=0,l="";n=i.exec(e);)s=n.index,s-a>t&&(r=o>a?o:s,l+="\n"+e.slice(a,r),a=r+1),o=s;return l+="\n",l+=e.length-a>t&&o>a?e.slice(a,o)+"\n"+e.slice(o+1):e.slice(a),l.slice(1)}function b(e){for(var t,n,r="",a=0;a<e.length;a++)t=e.charCodeAt(a),n=ie[t],r+=!n&&c(t)?e[a]:n||i(t);return r}function w(e,t,n){var r,i,a="",o=e.tag;for(r=0,i=n.length;r<i;r+=1)j(e,t,n[r],!1,!1)&&(0!==r&&(a+=", "),a+=e.dump);e.tag=o,e.dump="["+a+"]"}function _(e,t,n,r){var i,a,o="",l=e.tag;for(i=0,a=n.length;i<a;i+=1)j(e,t+1,n[i],!0,!0)&&(r&&0===i||(o+=s(e,t)),o+="-"+e.dump);e.tag=l,e.dump=o||"[]"}function x(e,t,n){var r,i,a,o,s,l="",u=e.tag,c=Object.keys(n);for(r=0,i=c.length;r<i;r+=1)s="",0!==r&&(s+=", "),a=c[r],o=n[a],j(e,t,a,!1,!1)&&(e.dump.length>1024&&(s+="? "),s+=e.dump+": ",j(e,t,o,!1,!1)&&(s+=e.dump,l+=s));e.tag=u,e.dump="{"+l+"}"}function A(e,t,n,r){var i,a,o,l,u,c,p="",h=e.tag,f=Object.keys(n);if(e.sortKeys===!0)f.sort();else if("function"==typeof e.sortKeys)f.sort(e.sortKeys);else if(e.sortKeys)throw new I("sortKeys must be a boolean or a function");for(i=0,a=f.length;i<a;i+=1)c="",r&&0===i||(c+=s(e,t)),o=f[i],l=n[o],j(e,t+1,o,!0,!0,!0)&&(u=null!==e.tag&&"?"!==e.tag||e.dump&&e.dump.length>1024,u&&(c+=e.dump&&P===e.dump.charCodeAt(0)?"?":"? "),c+=e.dump,u&&(c+=s(e,t)),j(e,t+1,l,!0,u)&&(c+=e.dump&&P===e.dump.charCodeAt(0)?":":": ",c+=e.dump,p+=c));e.tag=h,e.dump=p||"{}"}function S(e,t,n){var r,i,a,o,s,l;for(i=n?e.explicitTypes:e.implicitTypes,a=0,o=i.length;a<o;a+=1)if(s=i[a],(s.instanceOf||s.predicate)&&(!s.instanceOf||"object"==typeof t&&t instanceof s.instanceOf)&&(!s.predicate||s.predicate(t))){if(e.tag=n?s.tag:"?",s.represent){if(l=e.styleMap[s.tag]||s.defaultStyle,"[object Function]"===M.call(s.represent))r=s.represent(t,l);else{if(!R.call(s.represent,l))throw new I("!<"+s.tag+'> tag resolver accepts not "'+l+'" style');r=s.represent[l](t,l)}e.dump=r}return!0}return!1}function j(e,t,n,r,i,a){e.tag=null,e.dump=n,S(e,n,!1)||S(e,n,!0);var o=M.call(e.dump);r&&(r=e.flowLevel<0||e.flowLevel>t);var s,l,u="[object Object]"===o||"[object Array]"===o;if(u&&(s=e.duplicates.indexOf(n),l=s!==-1),(null!==e.tag&&"?"!==e.tag||l||2!==e.indent&&t>0)&&(i=!1),l&&e.usedDuplicates[s])e.dump="*ref_"+s;else{if(u&&l&&!e.usedDuplicates[s]&&(e.usedDuplicates[s]=!0),"[object Object]"===o)r&&0!==Object.keys(e.dump).length?(A(e,t,e.dump,i),l&&(e.dump="&ref_"+s+e.dump)):(x(e,t,e.dump),l&&(e.dump="&ref_"+s+" "+e.dump));else if("[object Array]"===o)r&&0!==e.dump.length?(_(e,t,e.dump,i),l&&(e.dump="&ref_"+s+e.dump)):(w(e,t,e.dump),l&&(e.dump="&ref_"+s+" "+e.dump));else{if("[object String]"!==o){if(e.skipInvalid)return!1;throw new I("unacceptable kind of an object to dump "+o)}"?"!==e.tag&&d(e,e.dump,t,a)}null!==e.tag&&"?"!==e.tag&&(e.dump="!<"+e.tag+"> "+e.dump)}return!0}function E(e,t){var

n,r,i=[],a=[];for(O(e,i,a),n=0,r=a.length;n<r;n+=1)t.duplicates.push(i[a[n]]);t.usedDuplicates=new Array(r)}function O(e,t,n){var r,i,a;if(null!==e&&"object"==typeof e)if(i=t.indexOf(e),i!==-1)n.indexOf(i)===-1&&n.push(i);else if(t.push(e),Array.isArray(e))for(i=0,a=e.length;i<a;i+=1)O(e[i],t,n);else for(r=Object.keys(e),i=0,a=r.length;i<a;i+=1)O(e[r[i]],t,n)}function k(e,t){t=t||{};var n=new a(t);return n.noRefs||E(e,n),j(n,0,e,!0,!0)?n.dump+"\n":""}function T(e,t){return k(e,C.extend({schema:L},t))}var C=e("./common"),I=e("./exception"),D=e("./schema/default_full"),L=e("./schema/default_safe"),M=Object.prototype.toString,R=Object.prototype.hasOwnProperty,U=9,P=10,q=32,B=33,N=34,z=35,$=37,F=38,V=39,H=42,Y=44,J=45,W=58,Q=62,G=63,K=64,X=91,Z=93,ee=96,te=123,ne=124,re=125,ie={};ie[0]="\\0",ie[7]="\\a",ie[8]="\\b",ie[9]="\\t",ie[10]="\\n",ie[11]="\\v",ie[12]="\\f",ie[13]="\\r",ie[27]="\\e",ie[34]="\\"",ie[92]="\\\\",ie[133]="\\N",ie[160]="_",ie[8232]="\\L",ie[8233]="\\P";var ae=["y","Y","yes","Yes","YES","on","On","ON","n","N","no","No","NO","off","Off","OFF"],oe=1,se=2,le=3,ue=4,ce=5;t.exports.dump=k,t.exports.safeDump=T},{"./common":21,"./exception":23,"./schema/default_full":28,"./schema/default_safe":29}],23:[function(e,t,n){"use strict";function r(e,t){Error.call(this),Error.captureStackTrace?Error.captureStackTrace(this,this.constructor):this.stack=(new Error).stack||"",this.name="YAMLException",this.reason=e,this.mark=t,this.message=(this.reason||"(unknown reason)")+(this.mark?"
"+this.mark.toString():"")}r.prototype=Object.create(Error.prototype),r.prototype.constructor=r,r.prototype.toString=function(e){var t=this.name+": ";return t+=this.reason||"(unknown reason)",!e&&this.mark&&(t+="
"+this.mark.toString()),t},t.exports=r},{}],24:[function(e,t,n){"use strict";function r(e){return 10===e||13===e}function i(e){return 9===e||32===e}function a(e){return 9===e||32===e||10===e||13===e}function o(e){return 44===e||91===e||93===e||123===e||125===e}function s(e){var t;return 48<=e&&e<=57?e-48:(t=32|e,97<=t&&t<=102?t-97+10:-1)}function l(e){return 120===e?2:117===e?4:85===e?8:0}function u(e){return 48<=e&&e<=57?e-48:-1}function c(e){return 48===e?"\0":97===e?"
":98===e?"\b":116===e?"\t":9===e?"\t":110===e?"\n":118===e?"\x0B":102===e?"\f":114===e?"\r":101===e?"
":32===e?"
":34===e?"":47===e?"/":92===e?"\\":78===e?"":95===e?"":76===e?"\u2028":80===e?"\u2029":""}function p(e){return e<=65535?String.fromCharCode(e):String.fromCharCode((e-65536>>10)+55296,(e-65536&1023)+56320)}function h(e,t){this.input=e,this.filename=t.filename||null,this.schema=t.schema||V,this.onWarning=t.onWarning||null,this.legacy=t.legacy||!1,this.json=t.json||!1,this.listener=t.listener||null,this.implicitTypes=this.schema.compiledImplicit,this.typeMap=this.schema.compiledTypeMap,this.length=e.length,this.position=0,this.line=0,this.lineStart=0,this.lineIndent=0,this.documents=[]}function f(e,t){return new z(t,new $(e.filename,e.input,e.position,e.line,e.position-e.lineStart))}function d(e,t){throw f(e,t)}function m(e,t){e.onWarning&&e.onWarning.call(null,f(e,t))}function g(e,t,n,r){var i,a,o,s;if(t<n){if(s=e.input.slice(t,n),r)for(i=0,a=s.length;i<a;i+=1)o=s.charCodeAt(i),9===o||32<=o&&o<=1114111||d(e,"expected valid JSON character");else Z.test(s)&&d(e,"the stream contains non-printable characters");e.result+=s}}function y(e,t,n,r){var i,a,o,s;for(N.isObject(n)||d(e,"cannot merge mappings; the provided source object is unacceptable"),i=Object.keys(n),o=0,s=i.length;o<s;o+=1)a=i[o],H.call(t,a)||(t[a]=n[a],r[a]=!0)}function v(e,t,n,r,i,a){var o,s;if(i=String(i),null===t&&(t={}),"tag:yaml.org,2002:merge"===r)if(Array.isArray(a))for(o=0,s=a.length;o<s;o+=1)y(e,t,a[o],n);else y(e,t,a,n);else e.json||H.call(n,i)||!H.call(t,i)||d(e,"duplicated mapping key"),t[i]=a,delete n[i];return t}function b(e){var t;t=e.input.charCodeAt(e.position),10===t?e.position++:13===t?(e.position++,10===e.input.charCodeAt(e.position)&&e.position++):d(e,"a line break is expected"),e.line+=1,e.lineStart=e.position}function w(e,t,n){for(var a=0,o=e.input.charCodeAt(e.position);0!==o;){for(;i(o);)o=e.input.charCodeAt(++e.position);if(t&&35===o)do

o=e.input.charCodeAt(++e.position);while(10!==o&&13!==o&&0!==o);if(!r(o))break;for(b(e),o=e.input.charCodeAt(e.position),a++,e.lineIndent=0;32===o;)e.lineIndent++,o=e.input.charCodeAt(++e.position)}return n!==-1&&0!==a&&e.lineIndent<n&&m(e,"deficient indentation"),a}function _(e){var t,n=e.position;return t=e.input.charCodeAt(n),!(45!==t&&46!==t||t!==e.input.charCodeAt(n+1)||t!==e.input.charCodeAt(n+2)||(n+=3,t=e.input.charCodeAt(n),0!==t&&!a(t)))}function x(e,t){1===t?e.result+=" ":t>1&&(e.result+=N.repeat("\n",t-1))}function A(e,t,n){var s,l,u,c,p,h,f,d,m,y=e.kind,v=e.result;if(m=e.input.charCodeAt(e.position),a(m)||o(m)||35===m||38===m||42===m||33===m||124===m||62===m||39===m||34===m||37===m||64===m||96===m)return!1;if((63===m||45===m)&&(l=e.input.charCodeAt(e.position+1),a(l)||n&&o(l)))return!1;for(e.kind="scalar",e.result="",u=c=e.position,p=!1;0!==m;){if(58===m){if(l=e.input.charCodeAt(e.position+1),a(l)||n&&o(l))break}else if(35===m){if(s=e.input.charCodeAt(e.position-1),a(s))break}else{if(e.position===e.lineStart&&_(e)||n&&o(m))break;if(r(m)){if(h=e.line,f=e.lineStart,d=e.lineIndent,w(e,!1,-1),e.lineIndent>=t){p=!0,m=e.input.charCodeAt(e.position);continue}e.position=c,e.line=h,e.lineStart=f,e.lineIndent=d;break}}p&&(g(e,u,c,!1),x(e,e.line-h),u=c=e.position,p=!1),i(m)||(c=e.position+1),m=e.input.charCodeAt(++e.position)}return g(e,u,c,!1),!!e.result||(e.kind=y,e.result=v,!1)}function S(e,t){var n,i,a;if(n=e.input.charCodeAt(e.position),39!==n)return!1;for(e.kind="scalar",e.result="",e.position++,i=a=e.position;0!==(n=e.input.charCodeAt(e.position));)if(39===n){if(g(e,i,e.position,!0),n=e.input.charCodeAt(++e.position),39!==n)return!0;i=a=e.position,e.position++}else r(n)?(g(e,i,a,!0),x(e,w(e,!1,t)),i=a=e.position):e.position===e.lineStart&&_(e)?d(e,"unexpected end of the document within a single quoted scalar"):(e.position++,a=e.position);d(e,"unexpected end of the stream within a single quoted scalar")}function j(e,t){var n,i,a,o,u,c;if(c=e.input.charCodeAt(e.position),34!==c)return!1;for(e.kind="scalar",e.result="",e.position++,n=i=e.position;0!==(c=e.input.charCodeAt(e.position));){if(34===c)return g(e,n,e.position,!0),e.position++,!0;if(92===c){if(g(e,n,e.position,!0),c=e.input.charCodeAt(++e.position),r(c))w(e,!1,t);else if(c<256&&ie[c])e.result+=ae[c],e.position++;else if((u=l(c))>0){for(a=u,o=0;a>0;a--)c=e.input.charCodeAt(++e.position),(u=s(c))>=0?o=(o<<4)+u:d(e,"expected hexadecimal character");e.result+=p(o),e.position++}else d(e,"unknown escape sequence");n=i=e.position}else r(c)?(g(e,n,i,!0),x(e,w(e,!1,t)),n=i=e.position):e.position===e.lineStart&&_(e)?d(e,"unexpected end of the document within a double quoted scalar"):(e.position++,i=e.position)}d(e,"unexpected end of the stream within a double quoted scalar")}function E(e,t){var n,r,i,o,s,l,u,c,p,h,f,m=!0,g=e.tag,y=e.anchor,b={};if(f=e.input.charCodeAt(e.position),91===f)o=93,u=!1,r=[];else{if(123!==f)return!1;o=125,u=!0,r={}}for(null!==e.anchor&&(e.anchorMap[e.anchor]=r),f=e.input.charCodeAt(++e.position);0!==f;){if(w(e,!0,t),f=e.input.charCodeAt(e.position),f===o)return e.position++,e.tag=g,e.anchor=y,e.kind=u?"mapping":"sequence",e.result=r,!0;m||d(e,"missed comma between flow collection entries"),p=c=h=null,s=l=!1,63===f&&(i=e.input.charCodeAt(e.position+1),a(i)&&(s=l=!0,e.position++,w(e,!0,t))),n=e.line,L(e,t,Y,!1,!0),p=e.tag,c=e.result,w(e,!0,t),f=e.input.charCodeAt(e.position),!l&&e.line!==n||58!==f||(s=!0,f=e.input.charCodeAt(++e.position),w(e,!0,t),L(e,t,Y,!1,!0),h=e.result),u?v(e,r,b,p,c,h):s?r.push(v(e,null,b,p,c,h)):r.push(c),w(e,!0,t),f=e.input.charCodeAt(e.position),44===f?(m=!0,f=e.input.charCodeAt(++e.position)):m=!1}d(e,"unexpected end of the stream within a flow collection")}function O(e,t){var n,a,o,s,l=G,c=!1,p=!1,h=t,f=0,m=!1;if(s=e.input.charCodeAt(e.position),124===s)a=!1;else{if(62!==s)return!1;a=!0}for(e.kind="scalar",e.result="";0!==s;)if(s=e.input.charCodeAt(++e.position),43===s||45===s)G===l?l=43===s?X:K:d(e,"repeat of a chomping mode identifier");else{if(!((o=u(s))>=0))break;0===o?d(e,"bad explicit indentation width of a block scalar; it cannot be less than one"):p?d(e,"repeat of an indentation width identifier"):(h=t+o-

1,p=!0)}if(i(s)){do
s=e.input.charCodeAt(++e.position);while(i(s));if(35===s)do
s=e.input.charCodeAt(++e.position);while(!r(s)&&0!==s)}for(;0!==s;){for(b(e),e.lineIndent=0,s=e.input.charCode
At(e.position);(!p||e.lineIndent<h)&&32===s;)e.lineIndent++,s=e.input.charCodeAt(++e.position);if(!p&&e.lineInd
ent>h&&(h=e.lineIndent),r(s))f++;else{if(e.lineIndent<h){l===X?e.result+=N.repeat("\n",c?1+f:f):l===G&&c&&(
e.result+="\n");break}for(a?i(s)?(m=!0,e.result+=N.repeat("\n",c?1+f:f)):m?(m=!1,e.result+=N.repeat("\n",f+1)):0=
==f?c&&(e.result+="
"):e.result+=N.repeat("\n",f):e.result+=N.repeat("\n",c?1+f:f),c=!0,p=!0,f=0,n=e.position;!r(s)&&0!==s;)s=e.input.c
harCodeAt(++e.position);g(e,n,e.position,!1)}}return!0}function k(e,t){var
n,r,i,o=e.tag,s=e.anchor,l=[],u=!1;for(null!==e.anchor&&(e.anchorMap[e.anchor]=l),i=e.input.charCodeAt(e.positio
n);0!==i&&45===i&&(r=e.input.charCodeAt(e.position+1),a(r));)if(u=!0,e.position++,w(e,!0,-
1)&&e.lineIndent<=t)l.push(null),i=e.input.charCodeAt(e.position);else
if(n=e.line,L(e,t,W,!1,!0),l.push(e.result),w(e,!0,-
1),i=e.input.charCodeAt(e.position),(e.line===n||e.lineIndent>t)&&0!==i)d(e,"bad
indentation of a sequence entry");else
if(e.lineIndent<t)break;return!!u&&(e.tag=o,e.anchor=s,e.kind="sequence",e.result=l,!0)}function T(e,t,n){var
r,o,s,l,u=e.tag,c=e.anchor,p={},h={},f=null,m=null,g=null,y=!1,b=!1;for(null!==e.anchor&&(e.anchorMap[e.ancho
r]=p),l=e.input.charCodeAt(e.position);0!==l;){if(r=e.input.charCodeAt(e.position+1),s=e.line,63!==l&&58!==l||!a(
r)){if(!L(e,n,J,!1,!0))break;if(e.line===s){for(l=e.input.charCodeAt(e.position);i(l);)l=e.input.charCodeAt(++e.posit
ion);if(58===l)l=e.input.charCodeAt(++e.position),a(l)||d(e,"a whitespace character is expected after the key-value
separator within a block
mapping"),y&&(v(e,p,h,f,m,null),f=m=g=null),b=!0,y=!1,o=!1,f=e.tag,m=e.result;else{if(!b)return
e.tag=u,e.anchor=c,!0;d(e,"can not read an implicit mapping pair; a colon is missed")}}else{if(!b)return
e.tag=u,e.anchor=c,!0;d(e,"can not read a block mapping
entry; a multiline key may not be an implicit key")}}else
63===l?(y&&(v(e,p,h,f,m,null),f=m=g=null),b=!0,y=!0,o=!0):y?(y=!1,o=!0):d(e,"incomplete explicit mapping pair;
a key node is
missed"),e.position+=1,l=r;if((e.line===s||e.lineIndent>t)&&(L(e,t,Q,!0,o)&&(y?m=e.result:g=e.result),y||(v(e,p,h,f,
m,g),f=m=g=null),w(e,!0,-1),l=e.input.charCodeAt(e.position)),e.lineIndent>t&&0!==l)d(e,"bad indentation of a
mapping entry");else if(e.lineIndent<t)break}return
y&&v(e,p,h,f,m,null),b&&(e.tag=u,e.anchor=c,e.kind="mapping",e.result=p),b}function C(e){var
t,n,r,i,o=!1,s=!1;if(i=e.input.charCodeAt(e.position),33!==i)return!1;if(null!==e.tag&&d(e,"duplication of a tag
property"),i=e.input.charCodeAt(++e.position),60===i?(o=!0,i=e.input.charCodeAt(++e.position)):33===i?(s=!0,n=
"!!",i=e.input.charCodeAt(++e.position)):n="!",t=e.position,o){do
i=e.input.charCodeAt(++e.position);while(0!==i&&62!==i);e.position<e.length?(r=e.input.slice(t,e.position),i=e.inp
ut.charCodeAt(++e.position)):d(e,"unexpected
end of the stream within a verbatim tag")}else{for(;0!==i&&!a(i);)33===i&&(s?d(e,"tag suffix cannot contain
exclamation marks"):(n=e.input.slice(t-1,e.position+1),ne.test(n)||d(e,"named tag handle cannot contain such
characters"),s=!0,t=e.position+1)),i=e.input.charCodeAt(++e.position);r=e.input.slice(t,e.position),te.test(r)&&d(e,"t
ag suffix cannot contain flow indicator characters")}return r&&!re.test(r)&&d(e,"tag name cannot contain such
characters:
"+r),o?e.tag=r:H.call(e.tagMap,n)?e.tag=e.tagMap[n]+r:"!"===n?e.tag="!"+r:"!!"===n?e.tag="tag:yaml.org,2002:"+
r:d(e,'undeclared tag handle "'+n+'"'),!0}function I(e){var
t,n;if(n=e.input.charCodeAt(e.position),38!==n)return!1;for(null!==e.anchor&&d(e,"duplication of an anchor
property"),n=e.input.charCodeAt(++e.position),t=e.position;0!==n&&!a(n)&&!o(n);)n=e.input.charCodeAt(++e.po
sition);return e.position===t&&d(e,"name of an anchor node must contain at least one
character"),e.anchor=e.input.slice(t,e.position),!0}function D(e){var

t,n,r;if(r=e.input.charCodeAt(e.position),42!==r)return!1;for(r=e.input.charCodeAt(++e.position),t=e.position;0!==r&&!a(r)&&!o(r);)r=e.input.charCodeAt(++e.position);return e.position===t&&d(e,"name of an alias node must contain at least one character"),n=e.input.slice(t,e.position),e.anchorMap.hasOwnProperty(n)||d(e,'unidentified alias "'+n+'"'),e.result=e.anchorMap[n],w(e,!0,-1),!0}function L(e,t,n,r,i){var a,o,s,l,u,c,p,h,f=1,m=!1,g=!1;if(null!==e.listener&&e.listener("open",e),e.tag=null,e.anchor=null,e.kind=null,e.result=null,a=o=s=Q===n||W===n,r&&w(e,!0,-1)&&(m=!0,e.lineIndent>t?f=1:e.lineIndent===t?f=0:e.lineIndent<t&&(f=-1)),1===f)for(;C(e)||I(e);)w(e,!0,-1)?(m=!0,s=a,e.lineIndent>t?f=1:e.lineIndent===t?f=0:e.lineIndent<t&&(f=-1)):s=!1;if(s&&(s=m||i),1!==f&&Q!==n||(p=Y===n||J===n?t:t+1,h=e.position-e.lineStart,1===f?s&&(k(e,h)||T(e,h,p))||E(e,p)?g=!0:(o&&O(e,p)||S(e,p)||j(e,p)?g=!0:D(e)?(g=!0,null===e.tag&&null===e.anchor||d(e,"alias node should not have any properties")):A(e,p,Y===n)&&(g=!0,null===e.tag&&(e.tag="?")),null!==e.anchor&&(e.anchorMap[e.anchor]=e.result)):0===f&&(g=s&&k(e,h))),null!==e.tag&&"!"!==e.tag)if("?"===e.tag){for(l=0,u=e.implicitTypes.length;l<u;l+=1)if(c=e.implicitTypes[l],c.resolve(e.result)){e.result=c.construct(e.result),e.tag=c.tag,null!==e.anchor&&(e.anchorMap[e.anchor]=e.result);break}}else
H.call(e.typeMap,e.tag)?(c=e.typeMap[e.tag],null!==e.result&&c.kind!==e.kind&&d(e,"unacceptable node kind for !<"+e.tag+'> tag; it should be "'+c.kind+'", not "'+e.kind+'"'),c.resolve(e.result)?(e.result=c.construct(e.result),null!==e.anchor&&(e.anchorMap[e.anchor]=e.result)):d(e,"cannot resolve a node with !<"+e.tag+"> explicit tag")):d(e,"unknown tag !<"+e.tag+">");return null!==e.listener&&e.listener("close",e),null!==e.tag||null!==e.anchor||g}function M(e){var t,n,o,s,l=e.position,u=!1;for(e.version=null,e.checkLineBreaks=e.legacy,e.tagMap={},e.anchorMap={};0!==(s=e.input.charCodeAt(e.position))&&(w(e,!0,-1),s=e.input.charCodeAt(e.position),!(e.lineIndent>0||37!==s));){for(u=!0,s=e.input.charCodeAt(++e.position),t=e.position;0!==s&&!a(s);)s=e.input.charCodeAt(++e.position);for(n=e.input.slice(t,e.position),o=[],n.length<1&&d(e,"directive
name must not be less than one character in length");0!==s;){for(;i(s);)s=e.input.charCodeAt(++e.position);if(35===s){do s=e.input.charCodeAt(++e.position);while(0!==s&&!r(s));break}if(r(s))break;for(t=e.position;0!==s&&!a(s);)s=e.input.charCodeAt(++e.position);o.push(e.input.slice(t,e.position))}0!==s&&b(e),H.call(se,n)?se[n](e,n,o):m(e,'unknown document directive "'+n+'"')}return w(e,!0,-1),0===e.lineIndent&&45===e.input.charCodeAt(e.position)&&45===e.input.charCodeAt(e.position+1)&&45===e.input.charCodeAt(e.position+2)?(e.position+=3,w(e,!0,-1)):u&&d(e,"directives end mark is expected"),L(e,e.lineIndent-1,Q,!1,!0),w(e,!0,-1),e.checkLineBreaks&&ee.test(e.input.slice(l,e.position))&&m(e,"non-ASCII line breaks are interpreted as content"),e.documents.push(e.result),e.position===e.lineStart&&_(e)?void(46===e.input.charCodeAt(e.position)&&(e.position+=3,w(e,!0,-1))):void(e.position<e.length-1&&d(e,"end
of the stream or a document separator is expected"))}function R(e,t){e=String(e),t=t||{},0!==e.length&&(10!==e.charCodeAt(e.length-1)&&13!==e.charCodeAt(e.length-1)&&(e+="\n"),65279===e.charCodeAt(0)&&(e=e.slice(1)));var n=new h(e,t);for(n.input+="\0";32===n.input.charCodeAt(n.position);)n.lineIndent+=1,n.position+=1;for(;n.position<n.length-1;)M(n);return n.documents}function U(e,t,n){var r,i,a=R(e,n);for(r=0,i=a.length;r<i;r+=1)t(a[r])}function P(e,t){var n=R(e,t);if(0!==n.length){if(1===n.length)return n[0];throw new z("expected a single document in the stream, but found more")}}function q(e,t,n){U(e,t,N.extend({schema:F},n))}function B(e,t){return P(e,N.extend({schema:F},t))}for(var N=e("./common"),z=e("./exception"),$=e("./mark"),F=e("./schema/default_safe"),V=e("./schema/default_full"),H=Object.prototype.hasOwnProperty,Y=1,J=2,W=3,Q=4,G=1,K=2,X=3,Z=/[\x00-\x08\x0B\x0C\x0E-\x1F\x7F-\x84\x86-\x9F\uFFFE\uFFFF]|[\uD800-\uDBFF](?![\uDC00-\uDFFF])|(?:[^\uD800-\uDBFF]|^)[\uDC00-\uDFFF]/,ee=/[\x85\u2028\u2029]/,te=/[,\[\]\{\}]/,ne=/^(?:!|!!|![a-z\-]+!)$/i,re=/^(?:!|[^,\[\]\{\}])(?:%[0-9a-f]{2}|[0-

9a-z\-#;\/\?:@&=\+\$,_\.!~*'\(\)\[\]])*$/i,ie=new
Array(256),ae=new Array(256),oe=0;oe<256;oe++)ie[oe]=c(oe)?1:0,ae[oe]=c(oe);var
se={YAML:function(e,t,n){var r,i,a;null!==e.version&&d(e,"duplication of %YAML
directive"),1!==n.length&&d(e,"YAML directive accepts exactly one argument"),r=/^([0-9]+)\.([0-
9]+)$/.exec(n[0]),null===r&&d(e,"ill-formed argument of the YAML
directive"),i=parseInt(r[1],10),a=parseInt(r[2],10),1!==i&&d(e,"unacceptable YAML version of the
document"),e.version=n[0],e.checkLineBreaks=a<2,1!==a&&2!==a&&m(e,"unsupported YAML version of the
document")},TAG:function(e,t,n){var r,i;2!==n.length&&d(e,"TAG directive accepts exactly two
arguments"),r=n[0],i=n[1],ne.test(r)||d(e,"ill-formed tag handle (first argument) of the TAG
directive"),H.call(e.tagMap,r)&&d(e,'there
is a previously declared suffix for "'+r+'" tag handle'),re.test(i)||d(e,"ill-formed tag prefix (second argument) of the
TAG
directive"),e.tagMap[r]=i}};t.exports.loadAll=U,t.exports.load=P,t.exports.safeLoadAll=q,t.exports.safeLoad=B},{"
./common":21,"./exception":23,"./mark":25,"./schema/default_full":28,"./schema/default_safe":29}],25:[function(e,t
,n){"use strict";function r(e,t,n,r,i){this.name=e,this.buffer=t,this.position=n,this.line=r,this.column=i}var
i=e("./common");r.prototype.getSnippet=function(e,t){var n,r,a,o,s;if(!this.buffer)return
null;for(e=e||4,t=t||75,n="",r=this.position;r>0&&"\0\r\n\u2028\u2029".indexOf(this.buffer.charAt(r-1))===-1;)if(r-
=1,this.position-r>t/2-1){n=" ...
",r+=5;break}for(a="",o=this.position;o<this.buffer.length&&"\0\r\n\u2028\u2029".indexOf(this.buffer.charAt(o))=
==-1;)if(o+=1,o-this.position>t/2-1){a=" ... ",o-=5;break}return s=this.buffer.slice(r,o),i.repeat("
",e)+n+s+a+"\n"+i.repeat(" ",e+this.position-r+n.length)+"^"},r.prototype.toString=function(e){var
t,n="";return this.name&&(n+='in "'+this.name+'" '),n+="at line "+(this.line+1)+", column
"+(this.column+1),e||(t=this.getSnippet(),t&&(n+=":\n"+t)),n},t.exports=r},{"./common":21}],26:[function(e,t,n){"u
se strict";function r(e,t,n){var i=[];return
e.include.forEach(function(e){n=r(e,t,n)}),e[t].forEach(function(e){n.forEach(function(t,n){t.tag===e.tag&&i.push(
n)}),n.push(e)}),n.filter(function(e,t){return i.indexOf(t)===-1})}function i(){function e(e){r[e.tag]=e}var
t,n,r={};for(t=0,n=arguments.length;t<n;t+=1)arguments[t].forEach(e);return r}function
a(e){this.include=e.include||[],this.implicit=e.implicit||[],this.explicit=e.explicit||[],this.implicit.forEach(function(e){i
f(e.loadKind&&"scalar"!==e.loadKind)throw new s("There is a non-scalar type in the implicit list of a schema.
Implicit resolving of such types is not
supported.")}),this.compiledImplicit=r(this,"implicit",[]),this.compiledExplicit=r(this,"explicit",[]),this.compiledTyp
eMap=i(this.compiledImplicit,this.compiledExplicit)}var
o=e("./common"),s=e("./exception"),l=e("./type");a.DEFAULT=null,a.create=function(){var
e,t;switch(arguments.length){case 1:e=a.DEFAULT,t=arguments[0];break;case
2:e=arguments[0],t=arguments[1];break;default:throw new s("Wrong number of arguments for Schema.create
function")}if(e=o.toArray(e),t=o.toArray(t),!e.every(function(e){return e instanceof a}))throw new s("Specified list
of super schemas (or a single Schema object) contains a non-Schema object.");if(!t.every(function(e){return e
instanceof l}))throw new s("Specified list of YAML types (or a single Type object) contains a non-Type
object.");return new
a({include:e,explicit:t})},t.exports=a},{"./common":21,"./exception":23,"./type":32}],27:[function(e,t,n){"use
strict";var r=e("../schema");t.exports=new
r({include:[e("./json")]})},{"../schema":26,"./json":31}],28:[function(e,t,n){"use strict";var
r=e("../schema");t.exports=r.DEFAULT=new
r({include:[e("./default_safe")],explicit:[e("../type/js/undefined"),e("../type/js/regexp"),e("../type/js/function")]})},{".
./schema":26,"../type/js/function":37,"../type/js/regexp":38,"../type/js/undefined":39,"./default_safe":29}],29:[functio
n(e,t,n){"use
strict";var r=e("../schema");t.exports=new
r({include:[e("./core")],implicit:[e("../type/timestamp"),e("../type/merge")],explicit:[e("../type/binary"),e("../type/om

ap"),e("../type/pairs"),e("../type/set")]})},{"../schema":26,"../type/binary":33,"../type/merge":41,"../type/omap":43,"../type/pairs":44,"../type/set":46,"../type/timestamp":48,"./core":27}],30:[function(e,t,n){"use strict";var r=e("../schema");t.exports=new r({explicit:[e("../type/str"),e("../type/seq"),e("../type/map")]})},{"../schema":26,"../type/map":40,"../type/seq":45,"../type/str":47}],31:[function(e,t,n){"use strict";var r=e("../schema");t.exports=new r({include:[e("./failsafe")],implicit:[e("../type/null"),e("../type/bool"),e("../type/int"),e("../type/float")]})},{"../schema":26,"../type/bool":34,"../type/float":35,"../type/int":36,"../type/null":42,"./failsafe":30}],32:[function(e,t,n){"use strict";function r(e){var t={};return null!==e&&Object.keys(e).forEach(function(n){e[n].forEach(function(e){t[String(e)]=n})}),t}function i(e,t){if(t=t||{},Object.keys(t).forEach(function(t){if(o.indexOf(t)===-1)throw new a('Unknown option "'+t+'" is met in definition of "'+e+'" YAML type.')}),this.tag=e,this.kind=t.kind||null,this.resolve=t.resolve||function(){return!0},this.construct=t.construct||function(e){return e},this.instanceOf=t.instanceOf||null,this.predicate=t.predicate||null,this.represent=t.represent||null,this.defaultStyle=t.defaultStyle||null,this.styleAliases=r(t.styleAliases||null),s.indexOf(this.kind)===-1)throw new a('Unknown kind "'+this.kind+'" is specified for "'+e+'" YAML type.')}var a=e("./exception"),o=["kind","resolve","construct","instanceOf","predicate","represent","defaultStyle","styleAliases"],s=["scalar","sequence","mapping"];t.exports=i},{"./exception":23}],33:[function(e,t,n){"use strict";function r(e){if(null===e)return!1;var t,n,r=0,i=e.length,a=p;for(n=0;n<i;n++)if(t=a.indexOf(e.charAt(n)),!(t>64)){if(t<0)return!1;r+=6}return r%8===0}function i(e){var t,n,r=e.replace(/[\r\n=]/g,""),i=r.length,a=p,o=0,l=[];for(t=0;t<i;t++)t%4===0&&t&&(l.push(o>>16&255),l.push(o>>8&255),l.push(255&o)),o=o<<6|a.indexOf(r.charAt(t));return n=i%4*6,0===n?(l.push(o>>16&255),l.push(o>>8&255),l.push(255&o)):18===n?(l.push(o>>10&255),l.push(o>>2&255)):12===n&&l.push(o>>4&255),s?new s(l):l}function a(e){var t,n,r="",i=0,a=e.length,o=p;for(t=0;t<a;t++)t%3===0&&t&&(r+=o[i>>18&63],r+=o[i>>12&63],r+=o[i>>6&63],r+=o[63&i]),i=(i<<8)+e[t];return n=a%3,0===n?(r+=o[i>>18&63],r+=o[i>>12&63],r+=o[i>>6&63],r+=o[63&i]):2===n?(r+=o[i>>10&63],r+=o[i>>4&63],r+=o[i<<2&63],r+=o[64]):1===n&&(r+=o[i>>2&63],r+=o[i<<4&63],r+=o[64],r+=o[64]),r}function o(e){return s&&s.isBuffer(e)}var s;try{var l=e;s=l("buffer").Buffer}catch(u){}var c=e("../type"),p="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=\n\r";t.exports=new c("tag:yaml.org,2002:binary",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a})},{"../type":32}],34:[function(e,t,n){"use strict";function r(e){if(null===e)return!1;var t=e.length;return 4===t&&("true"===e||"True"===e||"TRUE"===e)||5===t&&("false"===e||"False"===e||"FALSE"===e)}function i(e){return"true"===e||"True"===e||"TRUE"===e}function a(e){return"[object Boolean]"===Object.prototype.toString.call(e)}var o=e("../type");t.exports=new o("tag:yaml.org,2002:bool",{kind:"scalar",resolve:r,construct:i,predicate:a,represent:{lowercase:function(e){return e?"true":"false"},uppercase:function(e){return e?"TRUE":"FALSE"},camelcase:function(e){return e?"True":"False"}},defaultStyle:"lowercase"})},{"../type":32}],35:[function(e,t,n){"use strict";function r(e){return null!==e&&!u.test(e)}function i(e){var t,n,r,i;return t=e.replace(/_/g,"").toLowerCase(),n="-"===t[0]?-1:1,i=[],"+-".indexOf(t[0])>=0&&(t=t.slice(1)),".inf"===t?1===n?Number.POSITIVE_INFINITY:Number.NEGATIVE_INFINITY:".nan"===t?NaN:t.indexOf(":")>=0?(t.split(":").forEach(function(e){i.unshift(parseFloat(e,10))}),t=0,r=1,i.forEach(function(e){t+=e*r,r*=60}),n*t):n*parseFloat(t,10)}function a(e,t){var n;if(isNaN(e))switch(t){case"lowercase":return".nan";case"uppercase":return".NAN";case"camelcase":return".NaN"}else

if(Number.POSITIVE_INFINITY===e)switch(t){case"lowercase":return".inf";case"uppercase":return".INF";case"camelcase":return".Inf"}else if(Number.NEGATIVE_INFINITY===e)switch(t){case"lowercase":return"-.inf";case"uppercase":return"-.INF";case"camelcase":return"-.Inf"}else if(s.isNegativeZero(e))return"-0.0";return n=e.toString(10),c.test(n)?n.replace("e",".e"):n}function o(e){return"[object Number]"===Object.prototype.toString.call(e)&&(e%1!==0||s.isNegativeZero(e))}var s=e("../common"),l=e("../type"),u=new RegExp("^(?:[-+]?(?:[0-9][0-9_]*)\\.[0-9_]*(?:[eE][-+][0-9]+)?|\\.[0-9_]+(?:[eE][-+][0-9]+)?|[-+]?[0-9][0-9_]*(?::[0-5]?[0-9])+\\.[0-9_]*|[-+]?\\.(?:inf|Inf|INF)|\\.(?:nan|NaN|NAN))$"),c=/^[-+]?[0-9]+e/;t.exports=new l("tag:yaml.org,2002:float",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a,defaultStyle:"lowercase"})},{"../common":21,"../type":32}],36:[function(e,t,n){"use strict";function r(e){return 48<=e&&e<=57||65<=e&&e<=70||97<=e&&e<=102}function i(e){return 48<=e&&e<=55}function a(e){return 48<=e&&e<=57}function o(e){if(null===e)return!1;var t,n=e.length,o=0,s=!1;if(!n)return!1;if(t=e[o],"-"!==t&&"+"!==t||(t=e[++o]),"0"===t){if(o+1===n)return!0;if(t=e[++o],"b"===t){for(o++;o<n;o++)if(t=e[o],"_"!==t){if("0"!==t&&"1"!==t)return!1;s=!0}return s}if("x"===t){for(o++;o<n;o++)if(t=e[o],"_"!==t){if(!r(e.charCodeAt(o)))return!1;s=!0}return s}for(;o<n;o++)if(t=e[o],"_"!==t){if(!i(e.charCodeAt(o)))return!1;s=!0}return s}for(;o<n;o++)if(t=e[o],"_"!==t){if(":"===t)break;if(!a(e.charCodeAt(o)))return!1;s=!0}return!!s&&(":"!==t||/^(:[0-5]?[0-9])+$/.test(e.slice(o)))}function s(e){var t,n,r=e,i=1,a=[];return r.indexOf("_")!==-1&&(r=r.replace(/_/g,"")),t=r[0],"-"!==t&&"+"!==t||("-"===t&&(i=-1),r=r.slice(1),t=r[0]),"0"===r?0:"0"===t?"b"===r[1]?i*parseInt(r.slice(2),2):"x"===r[1]?i*parseInt(r,16):i*parseInt(r,8):r.indexOf(":")!==-1?(r.split(":").forEach(function(e){a.unshift(parseInt(e,10))}),r=0,n=1,a.forEach(function(e){r+=e*n,n*=60}),i*r):i*parseInt(r,10)}function l(e){return"[object Number]"===Object.prototype.toString.call(e)&&e%1===0&&!u.isNegativeZero(e)}var u=e("../common"),c=e("../type");t.exports=new c("tag:yaml.org,2002:int",{kind:"scalar",resolve:o,construct:s,predicate:l,represent:{binary:function(e){return"0b"+e.toString(2)},octal:function(e){return"0"+e.toString(8)},decimal:function(e){return e.toString(10)},hexadecimal:function(e){return"0x"+e.toString(16).toUpperCase()}},defaultStyle:"decimal",styleAliases:{binary:[2,"bin"],octal:[8,"oct"],decimal:[10,"dec"],hexadecimal:[16,"hex"]}})},{"../common":21,"../type":32}],37:[function(e,t,n){"use strict";function r(e){if(null===e)return!1;try{var t="("+e+")",n=s.parse(t,{range:!0});return"Program"===n.type&&1===n.body.length&&"ExpressionStatement"===n.body[0].type&&"FunctionExpression"===n.body[0].expression.type}catch(r){return!1}}function i(e){var t,n="("+e+")",r=s.parse(n,{range:!0}),i=[];if("Program"!==r.type||1!==r.body.length||"ExpressionStatement"!==r.body[0].type||"FunctionExpression"!==r.body[0].expression.type)throw new Error("Failed to resolve function");return r.body[0].expression.params.forEach(function(e){i.push(e.name)}),t=r.body[0].expression.body.range,new Function(i,n.slice(t[0]+1,t[1]-1))}function a(e){return e.toString()}function o(e){return"[object Function]"===Object.prototype.toString.call(e)}var s;try{var l=e;s=l("esprima")}catch(u){"undefined"!=typeof window&&(s=window.esprima)}var c=e("../../type");t.exports=new c("tag:yaml.org,2002:js/function",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a})},{"../../type":32}],38:[function(e,t,n){"use strict";function r(e){if(null===e)return!1;if(0===e.length)return!1;var t=e,n=/\/([gim]*)$/.exec(e),r="";if("/"===t[0]){if(n&&(r=n[1]),r.length>3)return!1;if("/"!==t[t.length-r.length-1])return!1}return!0}function i(e){var t=e,n=/\/([gim]*)$/.exec(e),r="";return"/"===t[0]&&(n&&(r=n[1]),t=t.slice(1,t.length-r.length-1)),new RegExp(t,r)}function a(e){var t="/"+e.source+"/";return e.global&&(t+="g"),e.multiline&&(t+="m"),e.ignoreCase&&(t+="i"),t}function o(e){return"[object RegExp]"===Object.prototype.toString.call(e)}var s=e("../../type");t.exports=new s("tag:yaml.org,2002:js/regexp",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a})},{"../../type":32}],39:[function(e,t,n){"use strict";function r(){return!0}function i(){}function a(){return""}function

```
o(e){return"undefined"==typeof e}var s=e("../../type");t.exports=new
s("tag:yaml.org,2002:js/undefined",{kind:"scalar",resolve:r,construct:i,predicate:o,represent:a})},{"../../type":32}],4
0:[function(e,t,n){"use strict";var r=e("../type");t.exports=new
r("tag:yaml.org,2002:map",{kind:"mapping",construct:function(e){return
null!==e?e:{}}})},{"../type":32}],41:[function(e,t,n){"use strict";function r(e){return"<<"===e||null===e}var
i=e("../type");t.exports=new
i("tag:yaml.org,2002:merge",{kind:"scalar",resolve:r})},{"../type":32}],42:[function(e,t,n){"use strict";function
r(e){if(null===e)return!0;var t=e.length;return
1===t&&"~"===e||4===t&&("null"===e||"Null"===e||"NULL"===e)}function i(){return null}function a(e){return
null===e}var o=e("../type");t.exports=new
o("tag:yaml.org,2002:null",{kind:"scalar",resolve:r,construct:i,predicate:a,represent:{canonical:function(){return"~"
},lowercase:function(){return"null"},uppercase:function(){return"NULL"},camelcase:function(){return"Null"}},def
aultStyle:"lowercase"})},{"../type":32}],43:[function(e,t,n){"use strict";function r(e){if(null===e)return!0;var
t,n,r,i,a,l=[],u=e;for(t=0,n=u.length;t<n;t+=1){if(r=u[t],a=!1,"[object Object]"!==s.call(r))return!1;for(i in
r)if(o.call(r,i)){if(a)return!1;a=!0}if(!a)return!1;if(l.indexOf(i)!==-1)return!1;l.push(i)}return!0}function
i(e){return null!==e?e:[]}var
a=e("../type"),o=Object.prototype.hasOwnProperty,s=Object.prototype.toString;t.exports=new
a("tag:yaml.org,2002:omap",{kind:"sequence",resolve:r,construct:i})},{"../type":32}],44:[function(e,t,n){"use
strict";function r(e){if(null===e)return!0;var t,n,r,i,a,s=e;for(a=new
Array(s.length),t=0,n=s.length;t<n;t+=1){if(r=s[t],"[object
Object]"!==o.call(r))return!1;if(i=Object.keys(r),1!==i.length)return!1;a[t]=[i[0],r[i[0]]]}return!0}function
i(e){if(null===e)return[];var t,n,r,i,a,o=e;for(a=new
Array(o.length),t=0,n=o.length;t<n;t+=1)r=o[t],i=Object.keys(r),a[t]=[i[0],r[i[0]]];return a}var
a=e("../type"),o=Object.prototype.toString;t.exports=new
a("tag:yaml.org,2002:pairs",{kind:"sequence",resolve:r,construct:i})},{"../type":32}],45:[function(e,t,n){"use
strict";var r=e("../type");t.exports=new r("tag:yaml.org,2002:seq",{kind:"sequence",construct:function(e){return
null!==e?e:[]}})},{"../type":32}],46:[function(e,t,n){"use
strict";function r(e){if(null===e)return!0;var t,n=e;for(t in n)if(o.call(n,t)&&null!==n[t])return!1;return!0}function
i(e){return null!==e?e:{}}var a=e("../type"),o=Object.prototype.hasOwnProperty;t.exports=new
a("tag:yaml.org,2002:set",{kind:"mapping",resolve:r,construct:i})},{"../type":32}],47:[function(e,t,n){"use
strict";var r=e("../type");t.exports=new r("tag:yaml.org,2002:str",{kind:"scalar",construct:function(e){return
null!==e?e:""}})},{"../type":32}],48:[function(e,t,n){"use strict";function r(e){return
null!==e&&(null!==s.exec(e)||null!==l.exec(e))}function i(e){var
t,n,r,i,a,o,u,c,p,h,f=0,d=null;if(t=s.exec(e),null===t&&(t=l.exec(e)),null===t)throw new Error("Date resolve
error");if(n=+t[1],r=+t[2]-1,i=+t[3],!t[4])return new
Date(Date.UTC(n,r,i));if(a=+t[4],o=+t[5],u=+t[6],t[7]){for(f=t[7].slice(0,3);f.length<3;)f+="0";f=+f}return
t[9]&&(c=+t[10],p=+(t[11]||0),d=6e4*(60*c+p),"-"===t[9]&&(d=-d)),h=new
Date(Date.UTC(n,r,i,a,o,u,f)),d&&h.setTime(h.getTime()-d),h}function
a(e){return e.toISOString()}var o=e("../type"),s=new RegExp("^([0-9][0-9][0-9][0-9])-([0-9][0-9])-([0-9][0-
9])$"),l=new RegExp("^([0-9][0-9][0-9][0-9])-([0-9][0-9]?)-([0-9][0-9]?)(?:[Tt]|[ \\t]+)([0-9][0-9]?):([0-9][0-9]):([0-
9][0-9])(?:\\.([0-9]*))?(?:[ \\t]*(Z|([-+])([0-9][0-9]?)(?::([0-9][0-9]))?))?$");t.exports=new
o("tag:yaml.org,2002:timestamp",{kind:"scalar",resolve:r,construct:i,instanceOf:Date,represent:a})},{"../type":32},
49:[function(e,t,n){function r(e,t,n){var r=e?e.length:0;if(!r)return-1;if("number"==typeof n)n=n<0?o(r+n,0):n;else
if(n){var s=a(e,t);return s<r&&(t===t?t===e[s]:e[s]!==e[s])?s:-1}return i(e,t,n||0)}var
i=e("../internal/baseIndexOf"),a=e("../internal/binaryIndex"),o=Math.max;t.exports=r},{"../internal/baseIndexOf":78
,"../internal/binaryIndex":92}],50:[function(e,t,n){function r(e){var t=e?e.length:0;return t?e[t-1]:void
0}t.exports=r},{}],51:[function(e,t,n){function r(e){if(l(e)&&!s(e)&&!(e instanceof i)){if(e instanceof a)return
e;if(p.call(e,"__chain__")&&p.call(e,"__wrapped__"))return
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u(e)}return new a(e)}var
i=e("../internal/LazyWrapper"),a=e("../internal/LodashWrapper"),o=e("../internal/baseLodash"),s=e("../lang/isArray"
),l=e("../internal/isObjectLike"),u=e("../internal/wrapperClone"),c=Object.prototype,p=c.hasOwnProperty;r.prototyp
e=o.prototype,t.exports=r},{"../internal/LazyWrapper":60,"../internal/LodashWrapper":61,"../internal/baseLodash":8
2,"../internal/isObjectLike":126,"../internal/wrapperClone":137,"../lang/isArray":140}],52:[function(e,t,n){t.exports=
e("./forEach")},{"./forEach":54}],53:[function(e,t,n){var
r=e("../internal/baseEach"),i=e("../internal/createFind"),a=i(r);t.exports=a},{"../internal/baseEach":71,"../internal/cre
ateFind":102}],54:[function(e,t,n){var
r=e("../internal/arrayEach"),i=e("../internal/baseEach"),a=e("../internal/createForEach"),o=a(r,i);t.exports=o},{"../int
ernal/arrayEach":63,"../internal/baseEach":71,"../internal/createForEach":103}],55:[function(e,t,n){function
r(e,t,n,r){var
h=e?a(e):0;return l(h)||(e=c(e),h=e.length),n="number"!=typeof n||r&&s(t,n,r)?0:n<0?p(h+n,0):n||0,"string"==typeof
e||!o(e)&&u(e)?n<=h&&e.indexOf(t,n)>-1:!!h&&i(e,t,n)>-1}var
i=e("../internal/baseIndexOf"),a=e("../internal/getLength"),o=e("../lang/isArray"),s=e("../internal/isIterateeCall"),l=e(
"../internal/isLength"),u=e("../lang/isString"),c=e("../object/values"),p=Math.max;t.exports=r},{"../internal/baseInde
xOf":78,"../internal/getLength":112,"../internal/isIterateeCall":122,"../internal/isLength":125,"../lang/isArray":140,"..
/lang/isString":146,"../object/values":152}],56:[function(e,t,n){function r(e,t,n){var r=s(e)?i:o;return
t=a(t,n,3),r(e,t)}var
i=e("../internal/arrayMap"),a=e("../internal/baseCallback"),o=e("../internal/baseMap"),s=e("../lang/isArray");t.export
s=r},{"../internal/arrayMap":64,"../internal/baseCallback":67,"../internal/baseMap":83,"../lang/isArray":140}],57:[fu
nction(e,t,n){var r=e("../internal/getNative"),i=r(Date,"now"),a=i||function(){return(new
Date).getTime()};t.exports=a},{"../internal/getNative":114}],58:[function(e,t,n){var
r=e("../internal/createWrapper"),i=e("../internal/replaceHolders"),a=e("./restParam"),o=1,s=32,l=a(function(e,t,n){va
r a=o;if(n.length){var u=i(n,l.placeholder);a|=s}return
r(e,a,t,n,u)});l.placeholder={},t.exports=l},{"../internal/createWrapper":106,"../internal/replaceHolders":132,"./restP
aram":59}],59:[function(e,t,n){function r(e,t){if("function"!=typeof e)throw new TypeError(i);return t=a(void
0===t?e.length-1:+t||0,0),function(){for(var n=arguments,r=-1,i=a(n.length-
t,0),o=Array(i);++r<i;)o[r]=n[t+r];switch(t){case 0:return e.call(this,o);case 1:return e.call(this,n[0],o);case 2:return
e.call(this,n[0],n[1],o)}var s=Array(t+1);for(r=-1;++r<t;)s[r]=n[r];return s[t]=o,e.apply(this,s)}}var i="Expected a
function",a=Math.max;t.exports=r},{}],60:[function(e,t,n){function
r(e){this.__wrapped__=e,this.__actions__=[],this.__dir__=1,this.__filtered__=!1,this.__iteratees__=[],this.__takeCo
unt__=o,this.__views__=[]}var
i=e("./baseCreate"),a=e("./baseLodash"),o=Number.POSITIVE_INFINITY;r.prototype=i(a.prototype),r.prototype.c
onstructor=r,t.exports=r},{"./baseCreate":70,"./baseLodash":82}],61:[function(e,t,n){function
r(e,t,n){this.__wrapped__=e,this.__actions__=n||[],this.__chain__=!!t}var
i=e("./baseCreate"),a=e("./baseLodash");r.prototype=i(a.prototype),r.prototype.constructor=r,t.exports=r},{"./baseCr
eate":70,"./baseLodash":82}],62:[function(e,t,n){function r(e,t){var n=-
1,r=e.length;for(t||(t=Array(r));++n<r;)t[n]=e[n];return t}t.exports=r},{}],63:[function(e,t,n){function r(e,t){for(var
n=-1,r=e.length;++n<r&&t(e[n],n,e)!==!1;);return e}t.exports=r},{}],64:[function(e,t,n){function r(e,t){for(var n=-
1,r=e.length,i=Array(r);++n<r;)i[n]=t(e[n],n,e);return i}t.exports=r},{}],65:[function(e,t,n){function r(e,t){for(var
n=-1,r=e.length;++n<r;)if(t(e[n],n,e))return!0;return!1}t.exports=r},{}],66:[function(e,t,n){function r(e,t){return
null==t?e:i(t,a(t),e)}var
i=e("./baseCopy"),a=e("../object/keys");t.exports=r},{"../object/keys":149,"./baseCopy":69}],67:[function(e,t,n){fun
ction
r(e,t,n){var r=typeof e;return"function"==r?void 0===t?e:o(e,t,n):null==e?s:"object"==r?i(e):void
0===t?l(e):a(e,t)}var
i=e("./baseMatches"),a=e("./baseMatchesProperty"),o=e("./bindCallback"),s=e("../utility/identity"),l=e("../utility/pro
perty");t.exports=r},{"../utility/identity":154,"../utility/property":156,"./baseMatches":84,"./baseMatchesProperty":8

5,"./bindCallback":94}],68:[function(e,t,n){function r(e,t,n,m,g,y,v){var w;if(n&&(w=g?n(e,m,g):n(e)),void 0!==w)return w;if(!f(e))return e;var _=p(e);if(_){if(w=l(e),!t)return i(e,w)}else{var A=B.call(e),S=A==b;if(A!=x&&A!=d&&(!S||g))return P[A]?u(e,A,t):g?e:{};if(h(e))return g?e:{};if(w=c(S?{}:e),!t)return o(w,e)}y||(y=[]),v||(v=[]);for(var j=y.length;j--;)if(y[j]==e)return v[j];return y.push(e),v.push(w),(_?a:s)(e,function(i,a){w[a]=r(i,t,n,a,e,y,v)}),w}var i=e("./arrayCopy"),a=e("./arrayEach"),o=e("./baseAssign"),s=e("./baseForOwn"),l=e("./initCloneArray"),u=e("./initCloneByTag"),c=e("./initCloneObject"),p=e("../lang/isArray"),h=e("./isHostObject"),f=e("../lang/isObject"),d="[object Arguments]",m="[object Array]",g="[object Boolean]",y="[object Date]",v="[object Error]",b="[object Function]",w="[object Map]",_="[object Number]",x="[object Object]",A="[object RegExp]",S="[object Set]",j="[object String]",E="[object WeakMap]",O="[object ArrayBuffer]",k="[object Float32Array]",T="[object Float64Array]",C="[object Int8Array]",I="[object Int16Array]",D="[object Int32Array]",L="[object Uint8Array]",M="[object Uint8ClampedArray]",R="[object Uint16Array]",U="[object Uint32Array]",P={};P[d]=P[m]=P[O]=P[g]=P[y]=P[k]=P[T]=P[C]=P[I]=P[D]=P[_]=P[x]=P[A]=P[j]=P[L]=P[M]=P[R]=P[U]=!0,P[v]=P[b]=P[w]=P[S]=P[E]=!1;var q=Object.prototype,B=q.toString;t.exports=r},{"../lang/isArray":140,"../lang/isObject":144,"./arrayCopy":62,"./arrayEach":63,"./baseAssign":66,"./baseForOwn":76,"./initCloneArray":116,"./initCloneByTag":117,"./initCloneObject":118,"./isHostObject":120}],69:[function(e,t,n){function r(e,t,n){n||(n={});for(var r=-1,i=t.length;++r<i;){var a=t[r];n[a]=e[a]}return n}t.exports=r},{}],70:[function(e,t,n){var r=e("../lang/isObject"),i=function(){function e(){}return function(t){if(r(t)){e.prototype=t;var n=new e;e.prototype=void 0}return n||{}}}();t.exports=i},{"../lang/isObject":144}],71:[function(e,t,n){var r=e("./baseForOwn"),i=e("./createBaseEach"),a=i(r);t.exports=a},{"./baseForOwn":76,"./createBaseEach":98}],72:[function(e,t,n){function r(e,t,n,r){var i;return n(e,function(e,n,a){if(t(e,n,a))return i=r?n:e,!1}),i}t.exports=r},{}],73:[function(e,t,n){function r(e,t,n){for(var r=e.length,i=n?r:-1;n?i--:++i<r;)if(t(e[i],i,e))return i;return-1}t.exports=r},{}],74:[function(e,t,n){var r=e("./createBaseFor"),i=r();t.exports=i},{"./createBaseFor":99}],75:[function(e,t,n){function r(e,t){return i(e,t,a)}var i=e("./baseFor"),a=e("../object/keysIn");t.exports=r},{"../object/keysIn":150,"./baseFor":74}],76:[function(e,t,n){function r(e,t){return i(e,t,a)}var i=e("./baseFor"),a=e("../object/keys");t.exports=r},{"../object/keys":149,"./baseFor":74}],77:[function(e,t,n){function r(e,t,n){if(null!=e){e=i(e),void 0!==n&&n in e&&(t=[n]);for(var r=0,a=t.length;null!=e&&r<a;)e=i(e)[t[r++]];return r&&r==a?e:void 0}}var i=e("./toObject");t.exports=r},{"./toObject":135}],78:[function(e,t,n){function r(e,t,n){if(t!==t)return i(e,n);for(var r=n-1,a=e.length;++r<a;)if(e[r]===t)return r;return-1}var i=e("./indexOfNaN");t.exports=r},{"./indexOfNaN":115}],79:[function(e,t,n){function r(e,t,n,s,l,u){return e===t||(null==e||null==t||!a(e)&&!o(t)?e!==e&&t!==t:i(e,t,r,n,s,l,u))}var i=e("./baseIsEqualDeep"),a=e("../lang/isObject"),o=e("./isObjectLike");t.exports=r},{"../lang/isObject":144,"./baseIsEqualDeep":80,"./isObjectLike":126}],80:[function(e,t,n){function r(e,t,n,r,f,g,y){var v=s(e),b=s(t),w=p,_=p;v||(w=m.call(e),w==c?w=h:w!=h&&(v=u(e))),b||(_=m.call(t),_==c?_=h:_!=h&&(b=u(t)));var x=w==h&&!l(e),A=_==h&&!l(t),S=w==_;if(S&&!v&&!x)return a(e,t,w);if(!f){var j=x&&d.call(e,"__wrapped__"),E=A&&d.call(t,"__wrapped__");if(j||E)return n(j?e.value():e,E?t.value():t,r,f,g,y)}if(!S)return!1;g||(g=[]),y||(y=[]);for(var O=g.length;O--;)if(g[O]==e)return y[O]==t;g.push(e),y.push(t);var k=(v?i:o)(e,t,n,r,f,g,y);return g.pop(),y.pop(),k}var i=e("./equalArrays"),a=e("./equalByTag"),o=e("./equalObjects"),s=e("../lang/isArray"),l=e("./isHostObject"),u=e("../lang/isTypedArray"),c="[object Arguments]",p="[object Array]",h="[object Object]",f=Object.prototype,d=f.hasOwnProperty,m=f.toString;t.exports=r},{"../lang/isArray":140,"../lang/isTyped

Array":147,"./equalArrays":107,"./equalByTag":108,"./equalObjects":109,"./isHostObject":120}],81:[function(e,t,n){function r(e,t,n){var r=t.length,o=r,s=!n;if(null==e)return!o;for(e=a(e);r--;){var l=t[r];if(s&&l[2]?l[1]!==e[l[0]]:!(l[0]in e))return!1}for(;++r<o;){l=t[r];var u=l[0],c=e[u],p=l[1];if(s&&l[2]){if(void 0===c&&!(u in e))return!1}else{var h=n?n(c,p,u):void 0;if(!(void 0===h?i(p,c,n,!0):h))return!1}}return!0}var i=e("./baseIsEqual"),a=e("./toObject");t.exports=r},{"./baseIsEqual":79,"./toObject":135}],82:[function(e,t,n){function r(){}t.exports=r},{}],83:[function(e,t,n){function r(e,t){var n=-1,r=a(e)?Array(e.length):[];return i(e,function(e,i,a){r[++n]=t(e,i,a)}),r}var i=e("./baseEach"),a=e("./isArrayLike");t.exports=r},{"./baseEach":71,"./isArrayLike":119}],84:[function(e,t,n){function r(e){var t=a(e);if(1==t.length&&t[0][2]){var n=t[0][0],r=t[0][1];return function(e){return null!=e&&(e=o(e),e[n]===r&&(void 0!==r||n in e))}}return function(e){return i(e,t)}}var i=e("./baseIsMatch"),a=e("./getMatchData"),o=e("./toObject");t.exports=r},{"./baseIsMatch":81,"./getMatchData":113,"./toObject":135}],85:[function(e,t,n){function r(e,t){var n=s(e),r=l(e)&&u(t),f=e+"";return e=h(e),function(s){if(null==s)return!1;var l=f;if(s=p(s),(n||!r)&&!(l in s)){if(s=1==e.length?s:i(s,o(e,0,-1)),null==s)return!1;l=c(e),s=p(s)}return s[l]===t?void 0!==t||l in s:a(t,s[l],void 0,!0)}}var i=e("./baseGet"),a=e("./baseIsEqual"),o=e("./baseSlice"),s=e("../lang/isArray"),l=e("./isKey"),u=e("./isStrictComparable"),c=e("../array/last"),p=e("./toObject"),h=e("./toPath");t.exports=r},{"../array/last":50,"../lang/isArray":140,"./baseGet":77,"./baseIsEqual":79,"./baseSlice":89,"./isKey":123,"./isStrictComparable":127,"./toObject":135,"./toPath":136}],86:[function(e,t,n){function r(e){return function(t){return null==t?void 0:i(t)[e]}}var i=e("./toObject");t.exports=r},{"./toObject":135}],87:[function(e,t,n){function r(e){var t=e+"";return e=a(e),function(n){return i(n,e,t)}}var i=e("./baseGet"),a=e("./toPath");t.exports=r},{"./baseGet":77,"./toPath":136}],88:[function(e,t,n){var r=e("../utility/identity"),i=e("./metaMap"),a=i?function(e,t){return i.set(e,t),e}:r;t.exports=a},{"../utility/identity":154,"./metaMap":129}],89:[function(e,t,n){function r(e,t,n){var r=-1,i=e.length;t=null==t?0:+t||0,t<0&&(t=-t>i?0:i+t),n=void 0===n||n>i?i:+n||0,n<0&&(n+=i),i=t>n?0:n-t>>>0,t>>>=0;for(var a=Array(i);++r<i;)a[r]=e[r+t];return a}t.exports=r},{}],90:[function(e,t,n){function r(e){return null==e?"":e+""}t.exports=r},{}],91:[function(e,t,n){function r(e,t){for(var n=-1,r=t.length,i=Array(r);++n<r;)i[n]=e[t[n]];return i}t.exports=r},{}],92:[function(e,t,n){function r(e,t,n){var r=0,o=e?e.length:r;if("number"==typeof t&&t===t&&o<=s){for(;r<o;){var l=r+o>>>1,u=e[l];(n?u<=t:u<t)&&null!==u?r=l+1:o=l}return o}return i(e,t,a,n)}var i=e("./binaryIndexBy"),a=e("../utility/identity"),o=4294967295,s=o>>>1;t.exports=r},{"../utility/identity":154,"./binaryIndexBy":93}],93:[function(e,t,n){function r(e,t,n,r){t=n(t);for(var o=0,l=e?e.length:0,u=t!==t,c=null===t,p=void 0===t;o<l;){var h=i((o+l)/2),f=n(e[h]),d=void 0!==f,m=f===f;if(u)var g=m||r;else g=c?m&&d&&(r||null!=f):p?m&&(r||d):null!=f&&(r?f<=t:f<t);g?o=h+1:l=h}return a(l,s)}var i=Math.floor,a=Math.min,o=4294967295,s=o-1;t.exports=r},{}],94:[function(e,t,n){function r(e,t,n){if("function"!=typeof e)return i;if(void 0===t)return e;switch(n){case 1:return function(n){return e.call(t,n)};case 3:return function(n,r,i){return e.call(t,n,r,i)};case 4:return function(n,r,i,a){return e.call(t,n,r,i,a)};case 5:return function(n,r,i,a,o){return e.call(t,n,r,i,a,o)}}return function(){return e.apply(t,arguments)}}var i=e("../utility/identity");t.exports=r},{"../utility/identity":154}],95:[function(e,t,n){(function(e){function n(e){var t=new r(e.byteLength),n=new i(t);return n.set(new i(e)),t}var r=e.ArrayBuffer,i=e.Uint8Array;t.exports=n}).call(this,"undefined"!=typeof global?global:"undefined"!=typeof self?self:"undefined"!=typeof window?window:{})},{}],96:[function(e,t,n){function r(e,t,n){for(var r=n.length,a=-1,o=i(e.length-r,0),s=-1,l=t.length,u=Array(l+o);++s<l;)u[s]=t[s];for(;++a<r;)u[n[a]]=e[a];for(;o--;)u[s++]=e[a++];return u}var i=Math.max;t.exports=r},{}],97:[function(e,t,n){function r(e,t,n){for(var r=-1,a=n.length,o=-1,s=i(e.length-a,0),l=-1,u=t.length,c=Array(s+u);++o<s;)c[o]=e[o];for(var p=o;++l<u;)c[p+l]=t[l];for(;++r<a;)c[p+n[r]]=e[o++];return

c}var i=Math.max;t.exports=r},{}],98:[function(e,t,n){function r(e,t){return function(n,r){var s=n?i(n):0;if(!a(s))return e(n,r);for(var l=t?s:-1,u=o(n);(t?l--:++l<s)&&r(u[l],l,u)!==!1;);return n}}var i=e("./getLength"),a=e("./isLength"),o=e("./toObject");t.exports=r},{"./getLength":112,"./isLength":125,"./toObject":135}],99:[function(e,t,n){function r(e){return function(t,n,r){for(var a=i(t),o=r(t),s=o.length,l=e?s:-1;e?l--:++l<s;){var u=o[l];if(n(a[u],u,a)===!1)break}return t}}var i=e("./toObject");t.exports=r},{"./toObject":135}],100:[function(e,t,n){(function(n){function r(e,t){function r(){var i=this&&this!==n&&this instanceof r?a:e;return i.apply(t,arguments)}var a=i(e);return r}var i=e("./createCtorWrapper");t.exports=r}).call(this,"undefined"!=typeof global?global:"undefined"!=typeof self?self:"undefined"!=typeof window?window:{})},{"./createCtorWrapper":101}],101:[function(e,t,n){function r(e){return function(){var t=arguments;switch(t.length){case 0:return new e;case 1:return new e(t[0]);case 2:return new e(t[0],t[1]);case 3:return new e(t[0],t[1],t[2]);case 4:return new e(t[0],t[1],t[2],t[3]);case 5:return new e(t[0],t[1],t[2],t[3],t[4]);case 6:return new e(t[0],t[1],t[2],t[3],t[4],t[5]);case 7:return new e(t[0],t[1],t[2],t[3],t[4],t[5],t[6])}var n=i(e.prototype),r=e.apply(n,t);return a(r)?r:n}}var i=e("./baseCreate"),a=e("../lang/isObject");t.exports=r},{"../lang/isObject":144,"./baseCreate":70}],102:[function(e,t,n){function r(e,t){return function(n,r,l){if(r=i(r,l,3),s(n)){var u=o(n,r,t);return u>-1?n[u]:void 0}return a(n,r,e)}}var i=e("./baseCallback"),a=e("./baseFind"),o=e("./baseFindIndex"),s=e("../lang/isArray");t.exports=r},{"../lang/isArray":140,"./baseCallback":67,"./baseFind":72,"./baseFindIndex":73}],103:[function(e,t,n){function r(e,t){return function(n,r,o){return"function"==typeof r&&void 0===o&&a(n)?e(n,r):t(n,i(r,o,3))}}var i=e("./bindCallback"),a=e("../lang/isArray");t.exports=r},{"../lang/isArray":140,"./bindCallback":94}],104:[function(e,t,n){(function(n){function r(e,t,_,x,A,S,j,E,O,k){function T(){for(var d=arguments.length,m=d,g=Array(d);m--;)g[m]=arguments[m];if(x&&(g=a(g,x,A)),S&&(g=o(g,S,j)),L||R){var b=T.placeholder,P=c(g,b);if(d-=P.length,d<k){var q=E?i(E):void 0,B=w(k-d,0),N=L?P:void 0,z=L?void 0:P,$=L?g:void 0,F=L?void 0:g;t|=L?y:v,t&=~(L?v:y),M||(t&=~(h|f));var V=[e,t,_,$,N,F,z,q,O,B],H=r.apply(void 0,V);return l(e)&&p(H,V),H.placeholder=b,H}}var Y=I?_:this,J=D?Y[e]:e;return E&&(g=u(g,E)),C&&O<g.length&&(g.length=O),this&&this!==n&&this instanceof T&&(J=U||s(e)),J.apply(Y,g)}var C=t&b,I=t&h,D=t&f,L=t&m,M=t&d,R=t&g,U=D?void 0:s(e);return T}var i=e("./arrayCopy"),a=e("./composeArgs"),o=e("./composeArgsRight"),s=e("./createCtorWrapper"),l=e("./isLaziable"),u=e("./reorder"),c=e("./replaceHolders"),p=e("./setData"),h=1,f=2,d=4,m=8,g=16,y=32,v=64,b=128,w=Math.max;t.exports=r}).call(this,"undefined"!=typeof global?global:"undefined"!=typeof self?self:"undefined"!=typeof window?window:{})},{"./arrayCopy":62,"./composeArgs":96,"./composeArgsRight":97,"./createCtorWrapper":101,"./isLaziable":124,"./reorder":131,"./replaceHolders":132,"./setData":133}],105:[function(e,t,n){(function(n){function r(e,t,r,o){function s(){for(var t=-1,i=arguments.length,a=-1,c=o.length,p=Array(c+i);++a<c;)p[a]=o[a];for(;i--;)p[a++]=arguments[++t];var h=this&&this!==n&&this instanceof s?u:e;return h.apply(l?r:this,p)}var l=t&a,u=i(e);return s}var i=e("./createCtorWrapper"),a=1;t.exports=r}).call(this,"undefined"!=typeof global?global:"undefined"!=typeof self?self:"undefined"!=typeof window?window:{})},{"./createCtorWrapper":101}],106:[function(e,t,n){function r(e,t,n,r,y,v,b,w){var _=t&h;if(!_&&"function"!=typeof e)throw new TypeError(m);var x=r?r.length:0;if(x||(t&=~(f|d),r=y=void 0),x-=y?y.length:0,t&d){var A=r,S=y;r=y=void 0}var j=_?void 0:l(e),E=[e,t,n,r,y,A,S,v,b,w];if(j&&(u(E,j),t=E[1],w=E[9]),E[9]=null==w?_?0:e.length:g(w-x,0)||0,t==p)var O=a(E[0],E[2]);else O=t!=f&&t!=(p|f)||E[4].length?o.apply(void 0,E):s.apply(void 0,E);var k=j?i:c;return k(O,E)}var i=e("./baseSetData"),a=e("./createBindWrapper"),o=e("./createHybridWrapper"),s=e("./createPartialWrapper"),l=e("./getData"),u=e("./mergeData"),c=e("./setData"),p=1,h=2,f=32,d=64,m="Expected a function",g=Math.max;t.exports=r},{"./baseSetData":88,"./createBindWrapper":100,"./createHybridWrapper":104,"./createPartialWrapper":105,"./getData":110,"./mergeData":128,"./setData":133}],107:[function(e,t,n){function

r(e,t,n,r,a,o,s){var l=-1,u=e.length,c=t.length;if(u!=c&&!(a&&c>u))return!1;for(;++l<u;){var p=e[l],h=t[l],f=r?r(a?h:p,a?p:h,l):void 0;if(void 0!==f){if(f)continue;return!1}if(a){if(!i(t,function(e){return p===e||n(p,e,r,a,o,s)}))return!1}else if(p!==h&&!n(p,h,r,a,o,s))return!1}return!0}var i=e("./arraySome");t.exports=r},{"./arraySome":65}],108:[function(e,t,n){function r(e,t,n){switch(n){case i:case a:return+e==+t;case o:return e.name==t.name&&e.message==t.message;case s:return e!=+e?t!=+t:e==+t;case l:case u:return e==t+""}return!1}var i="[object Boolean]",a="[object Date]",o="[object Error]",s="[object Number]",l="[object RegExp]",u="[object String]";t.exports=r},{}],109:[function(e,t,n){function r(e,t,n,r,a,s,l){var u=i(e),c=u.length,p=i(t),h=p.length;if(c!=h&&!a)return!1;for(var f=c;f--;){var d=u[f];if(!(a?d in t:o.call(t,d)))return!1}for(var m=a;++f<c;){d=u[f];var g=e[d],y=t[d],v=r?r(a?y:g,a?g:y,d):void 0;if(!(void 0===v?n(g,y,r,a,s,l):v))return!1;m||(m="constructor"==d)}if(!m){var b=e.constructor,w=t.constructor;if(b!=w&&"constructor"in e&&"constructor"in t&&!("function"==typeof b&&b instanceof b&&"function"==typeof w&&w instanceof w))return!1}return!0}var i=e("../object/keys"),a=Object.prototype,o=a.hasOwnProperty;t.exports=r},{"../object/keys":149}],110:[function(e,t,n){var r=e("./metaMap"),i=e("../utility/noop"),a=r?function(e){return r.get(e)}:i;t.exports=a},{"../utility/noop":155,"./metaMap":129}],111:[function(e,t,n){function r(e){for(var t=e.name+"",n=i[t],r=n?n.length:0;r--;){var a=n[r],o=a.func;if(null==o||o==e)return a.name}return t}var i=e("./realNames");t.exports=r},{"./realNames":130}],112:[function(e,t,n){var r=e("./baseProperty"),i=r("length");t.exports=i},{"./baseProperty":86}],113:[function(e,t,n){function r(e){for(var t=a(e),n=t.length;n--;)t[n][2]=i(t[n][1]);return t}var i=e("./isStrictComparable"),a=e("../object/pairs");t.exports=r},{"../object/pairs":151,"./isStrictComparable":127}],114:[function(e,t,n){function r(e,t){var n=null==e?void 0:e[t];return i(n)?n:void 0}var i=e("../lang/isNative");t.exports=r},{"../lang/isNative":143}],115:[function(e,t,n){function r(e,t,n){for(var r=e.length,i=t+(n?0:-1);n?i--:++i<r;){var a=e[i];if(a!==a)return i}return-1}t.exports=r},{}],116:[function(e,t,n){function r(e){var t=e.length,n=new e.constructor(t);return t&&"string"==typeof e[0]&&a.call(e,"index")&&(n.index=e.index,n.input=e.input),n}var i=Object.prototype,a=i.hasOwnProperty;t.exports=r},{}],117:[function(e,t,n){(function(n){function r(e,t,n){var r=e.constructor;switch(t){case c:return i(e);case a:case o:return new r((+e));case p:case h:case f:case d:case m:case g:case y:case v:case b:r instanceof r&&(r=x[t]);var _=e.buffer;return new r(n?i(_):_,e.byteOffset,e.length);case s:case u:return new r(e);case l:var A=new r(e.source,w.exec(e));A.lastIndex=e.lastIndex}return A}var i=e("./bufferClone"),a="[object Boolean]",o="[object Date]",s="[object Number]",l="[object RegExp]",u="[object String]",c="[object ArrayBuffer]",p="[object Float32Array]",h="[object Float64Array]",f="[object Int8Array]",d="[object Int16Array]",m="[object Int32Array]",g="[object Uint8Array]",y="[object Uint8ClampedArray]",v="[object Uint16Array]",b="[object Uint32Array]",w=/\w*$/,_=n.Uint8Array,x={};x[p]=n.Float32Array,x[h]=n.Float64Array,x[f]=n.Int8Array,x[d]=n.Int16Array,x[m]=n.Int32Array,x[g]=_,x[y]=n.Uint8ClampedArray,x[v]=n.Uint16Array,x[b]=n.Uint32Array,t.exports=r}).call(this,"undefined"!=typeof global?global:"undefined"!=typeof self?self:"undefined"!=typeof window?window:{})},{"./bufferClone":95}],118:[function(e,t,n){function r(e){var t=e.constructor;return"function"==typeof t&&t instanceof t||(t=Object),new t}t.exports=r},{}],119:[function(e,t,n){function r(e){return null!=e&&a(i(e))}var i=e("./getLength"),a=e("./isLength");t.exports=r},{"./getLength":112,"./isLength":125}],120:[function(e,t,n){var r=function(){try{Object({toString:0}+"")}catch(e){return function(){return!1}}return function(e){return"function"!=typeof e.toString&&"string"==typeof(e+"")}}();t.exports=r},{}],121:[function(e,t,n){function r(e,t){return e="number"==typeof e||i.test(e)?+e:-1,t=null==t?a:t,e>-1&&e%1==0&&e<t}var i=/^\d+$/,a=9007199254740991;t.exports=r},{}],122:[function(e,t,n){function r(e,t,n){if(!o(n))return!1;var r=typeof t;if("number"==r?i(n)&&a(t,n.length):"string"==r&&t in n){var s=n[t];return e===e?e===s:s!==s}return!1}var i=e("./isArrayLike"),a=e("./isIndex"),o=e("../lang/isObject");t.exports=r},{"../lang/isObject":144,"./isArrayLike":11

9,"./isIndex":121}],123:[function(e,t,n){function
r(e,t){var n=typeof e;if("string"==n&&s.test(e)||"number"==n)return!0;if(i(e))return!1;var r=!o.test(e);return
r||null!=t&&e in a(t)}var
i=e("../lang/isArray"),a=e("./toObject"),o=/\.|\[(?:[^[\]]*|(["'])(?:(?!\1)[^\n\\]|\\.)*?\1)\]/,s=/^\w*$/;t.exports=r},{"../lang/isArray":140,"./toObject":135}],124:[function(e,t,n){function r(e){var t=o(e),n=s[t];if("function"!=typeof n||!(t in i.prototype))return!1;if(e===n)return!0;var r=a(n);return!!r&&e===r[0]}var
i=e("./LazyWrapper"),a=e("./getData"),o=e("./getFuncName"),s=e("../chain/lodash");t.exports=r},{"../chain/lodash":51,"./LazyWrapper":60,"./getData":110,"./getFuncName":111}],125:[function(e,t,n){function
r(e){return"number"==typeof e&&e>-1&&e%1==0&&e<=i}var
i=9007199254740991;t.exports=r},{}],126:[function(e,t,n){function r(e){return!!e&&"object"==typeof
e}t.exports=r},{}],127:[function(e,t,n){function r(e){return e===e&&!i(e)}var
i=e("../lang/isObject");t.exports=r},{"../lang/isObject":144}],128:[function(e,t,n){function
r(e,t){var
n=e[1],r=t[1],m=n|r,g=m<p,y=r==p&&n==c||r==p&&n==h&&e[7].length<=t[8]||r==(p|h)&&n==c;if(!g&&!y)retur
n e;r&l&&(e[2]=t[2],m|=n&l?0:u);var v=t[3];if(v){var b=e[3];e[3]=b?a(b,v,t[4]):i(v),e[4]=b?s(e[3],f):i(t[4])}return
v=t[5],v&&(b=e[5],e[5]=b?o(b,v,t[6]):i(v),e[6]=b?s(e[5],f):i(t[6])),v=t[7],v&&(e[7]=i(v)),r&p&&(e[8]=null==e[8]?
t[8]:d(e[8],t[8])),null==e[9]&&(e[9]=t[9]),e[0]=t[0],e[1]=m,e}var
i=e("./arrayCopy"),a=e("./composeArgs"),o=e("./composeArgsRight"),s=e("./replaceHolders"),l=1,u=4,c=8,p=128,h
=256,f="__lodash_placeholder__",d=Math.min;t.exports=r},{"./arrayCopy":62,"./composeArgs":96,"./composeArgs
Right":97,"./replaceHolders":132}],129:[function(e,t,n){(function(n){var
r=e("./getNative"),i=r(n,"WeakMap"),a=i&&new i;t.exports=a}).call(this,"undefined"!=typeof
global?global:"undefined"!=typeof self?self:"undefined"!=typeof
window?window:{})},{"./getNative":114}],130:[function(e,t,n){var
r={};t.exports=r},{}],131:[function(e,t,n){function
r(e,t){for(var n=e.length,r=o(t.length,n),s=i(e);r--;){var l=t[r];e[r]=a(l,n)?s[l]:void 0}return e}var
i=e("./arrayCopy"),a=e("./isIndex"),o=Math.min;t.exports=r},{"./arrayCopy":62,"./isIndex":121}],132:[function(e,t,
n){function r(e,t){for(var n=-1,r=e.length,a=-1,o=[];++n<r;)e[n]===t&&(e[n]=i,o[++a]=n);return o}var
i="__lodash_placeholder__";t.exports=r},{}],133:[function(e,t,n){var
r=e("./baseSetData"),i=e("../date/now"),a=150,o=16,s=function(){var e=0,t=0;return function(n,s){var l=i(),u=o-(l-
t);if(t=l,u>0){if(++e>=a)return n}else e=0;return
r(n,s)}}();t.exports=s},{"../date/now":57,"./baseSetData":88}],134:[function(e,t,n){function r(e){for(var
t=u(e),n=t.length,r=n&&e.length,c=!!r&&s(r)&&(a(e)||i(e)||l(e)),h=-1,f=[];++h<n;){var
d=t[h];(c&&o(d,r)||p.call(e,d))&&f.push(d)}return f}var
i=e("../lang/isArguments"),a=e("../lang/isArray"),o=e("./isIndex"),s=e("./isLength"),l=e("../lang/isString"),u=e("../ob
ject/keysIn"),c=Object.prototype,p=c.hasOwnProperty;t.exports=r},{"../lang/isArguments":139,"../lang/isArray":14
0,"../lang/isString":146,"../object/keysIn":150,"./isIndex":121,"./isLength":125}],135:[function(e,t,n){function
r(e){if(o.unindexedChars&&a(e)){for(var t=-1,n=e.length,r=Object(e);++t<n;)r[t]=e.charAt(t);return r}return
i(e)?e:Object(e)}var
i=e("../lang/isObject"),a=e("../lang/isString"),o=e("../support");t.exports=r},{"../lang/isObject":144,"../lang/isString":
146,"../support":153}],136:[function(e,t,n){function r(e){if(a(e))return e;var t=[];return
i(e).replace(o,function(e,n,r,i){t.push(r?i.replace(s,"$1"):n||e)}),t}var
i=e("./baseToString"),a=e("../lang/isArray"),o=/[^.[\]]+|\[(?:(-
?\d+(?:\.\d+)?)|(["'])((?:(?!\2)[^\n\\]|\\.)*?)\2)\]/g,s=/\\(\\)?/g;t.exports=r},{"../lang/isArray":140,"./baseToString":90}
],137:[function(e,t,n){function r(e){return e instanceof i?e.clone():new
a(e.__wrapped__,e.__chain__,o(e.__actions__))}var
i=e("./LazyWrapper"),a=e("./LodashWrapper"),o=e("./arrayCopy");t.exports=r},{"./LazyWrapper":60,"./LodashWra
pper":61,"./arrayCopy":62}],138:[function(e,t,n){function

r(e,t,n){return"function"==typeof t?i(e,!0,a(t,n,3)):i(e,!0)}var i=e("../internal/baseClone"),a=e("../internal/bindCallback");t.exports=r},{"../internal/baseClone":68,"../internal/bindCallback":94}],139:[function(e,t,n){function r(e){return a(e)&&i(e)&&s.call(e,"callee")&&!l.call(e,"callee")}var i=e("../internal/isArrayLike"),a=e("../internal/isObjectLike"),o=Object.prototype,s=o.hasOwnProperty,l=o.propertyIsEnumerable;t.exports=r},{"../internal/isArrayLike":119,"../internal/isObjectLike":126}],140:[function(e,t,n){var r=e("../internal/getNative"),i=e("../internal/isLength"),a=e("../internal/isObjectLike"),o="[object Array]",s=Object.prototype,l=s.toString,u=r(Array,"isArray"),c=u||function(e){return a(e)&&i(e.length)&&l.call(e)==o};t.exports=c},{"../internal/getNative":114,"../internal/isLength":125,"../internal/isObjectLike":126}],141:[function(e,t,n){function r(e){return null==e||(o(e)&&(a(e)||u(e)||i(e)||l(e)&&s(e.splice))?!e.length:!c(e).length)}var i=e("./isArguments"),a=e("./isArray"),o=e("../internal/isArrayLike"),s=e("./isFunction"),l=e("../internal/isObjectLike"),u=e("./isString"),c=e("../object/keys");t.exports=r},{"../internal/isArrayLike":119,"../internal/isObjectLike":126,"../object/keys":149,"./isArguments":139,"./isArray":140,"./isFunction":142,"./isString":146}],142:[function(e,t,n){function r(e){return i(e)&&s.call(e)==a}var i=e("./isObject"),a="[object Function]",o=Object.prototype,s=o.toString;t.exports=r},{"./isObject":144}],143:[function(e,t,n){function r(e){return null!=e&&(i(e)?p.test(u.call(e)):o(e)&&(a(e)?p:s).test(e))}var i=e("./isFunction"),a=e("../internal/isHostObject"),o=e("../internal/isObjectLike"),s=/^\[object .+?Constructor\]$/,l=Object.prototype,u=Function.prototype.toString,c=l.hasOwnProperty,p=RegExp("^"+u.call(c).replace(/[\\^$.*+?()[\]{}|]/g,"\\$&").replace(/hasOwnProperty|(function).*?(?=\\\()| for .+?(?=\\\])/g,"$1.*?")+"$");t.exports=r},{"../internal/isHostObject":120,"../internal/isObjectLike":126,"./isFunction":142}],144:[function(e,t,n){function r(e){var t=typeof e;return!!e&&("object"==t||"function"==t)}t.exports=r},{}],145:[function(e,t,n){function r(e){var t;if(!s(e)||h.call(e)!=u||o(e)||a(e)||!p.call(e,"constructor")&&(t=e.constructor,"function"==typeof t&&!(t instanceof t)))return!1;var n;return l.ownLast?(i(e,function(e,t,r){return n=p.call(r,t),!1}),n!==!1):(i(e,function(e,t){n=t}),void 0===n||p.call(e,n))}var i=e("../internal/baseForIn"),a=e("./isArguments"),o=e("../internal/isHostObject"),s=e("../internal/isObjectLike"),l=e("../support"),u="[object Object]",c=Object.prototype,p=c.hasOwnProperty,h=c.toString;t.exports=r},{"../internal/baseForIn":75,"../internal/isHostObject":120,"../internal/isObjectLike":126,"../support":153,"./isArguments":139}],146:[function(e,t,n){function r(e){return"string"==typeof e||i(e)&&s.call(e)==a}var i=e("../internal/isObjectLike"),a="[object String]",o=Object.prototype,s=o.toString;t.exports=r},{"../internal/isObjectLike":126}],147:[function(e,t,n){function r(e){return a(e)&&i(e.length)&&!!T[I.call(e)]}var i=e("../internal/isLength"),a=e("../internal/isObjectLike"),o="[object Arguments]",s="[object Array]",l="[object Boolean]",u="[object Date]",c="[object Error]",p="[object Function]",h="[object Map]",f="[object Number]",d="[object Object]",m="[object RegExp]",g="[object Set]",y="[object String]",v="[object WeakMap]",b="[object ArrayBuffer]",w="[object Float32Array]",_="[object Float64Array]",x="[object Int8Array]",A="[object Int16Array]",S="[object Int32Array]",j="[object Uint8Array]",E="[object Uint8ClampedArray]",O="[object Uint16Array]",k="[object Uint32Array]",T={};T[w]=T[_]=T[x]=T[A]=T[S]=T[j]=T[E]=T[O]=T[k]=!0,T[o]=T[s]=T[b]=T[l]=T[u]=T[c]=T[p]=T[h]=T[f]=T[d]=T[m]=T[g]=T[y]=T[v]=!1;var C=Object.prototype,I=C.toString;t.exports=r},{"../internal/isLength":125,"../internal/isObjectLike":126}],148:[function(e,t,n){function r(e){return void 0===e}t.exports=r},{}],149:[function(e,t,n){var r=e("../internal/getNative"),i=e("../internal/isArrayLike"),a=e("../lang/isObject"),o=e("../internal/shimKeys"),s=e("../support"),l=r(Object,"keys"),u=l?function(e){var t=null==e?void 0:e.constructor;return"function"==typeof t&&t.prototype===e||("function"==typeof e?s.enumPrototypes:i(e))?o(e):a(e)?l(e):[]}:o;t.exports=u},{"../internal/getNative":114,"../internal/isArrayLike":119,"../internal/shimKeys":134,"../lang/isObject":144,"../support":153}],150:[function(e,t,n){function

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r(e){if(null==e)return[];c(e)||(e=Object(e));var t=e.length;t=t&&u(t)&&(o(e)||a(e)||p(e))&&t||0;for(var
n=e.constructor,r=-1,i=s(n)&&n.prototype||S,f=i===e,d=Array(t),m=t>0,y=h.enumErrorProps&&(e===A||e
instanceof Error),v=h.enumPrototypes&&s(e);++r<t;)d[r]=r+"";for(var w in
e)v&&"prototype"==w||y&&("message"==w||"name"==w)||m&&l(w,t)||"constructor"==w&&(f||!E.call(e,w))||d.pus
h(w);if(h.nonEnumShadows&&e!==S){var
T=e===j?_:e===A?g:O.call(e),C=k[T]||k[b];for(T==b&&(i=S),t=x.length;t--;){w=x[t];var
I=C[w];f&&I||(I?!E.call(e,w):e[w]===i[w])||d.push(w)}}return
 d}var
i=e("../internal/arrayEach"),a=e("../lang/isArguments"),o=e("../lang/isArray"),s=e("../lang/isFunction"),l=e("../intern
al/isIndex"),u=e("../internal/isLength"),c=e("../lang/isObject"),p=e("../lang/isString"),h=e("../support"),f="[object
Array]",d="[object Boolean]",m="[object Date]",g="[object Error]",y="[object Function]",v="[object
Number]",b="[object Object]",w="[object RegExp]",_="[object
String]",x=["constructor","hasOwnProperty","isPrototypeOf","propertyIsEnumerable","toLocaleString","toString","
valueOf"],A=Error.prototype,S=Object.prototype,j=String.prototype,E=S.hasOwnProperty,O=S.toString,k={};k[f]=
k[m]=k[v]={constructor:!0,toLocaleString:!0,toString:!0,valueOf:!0},k[d]=k[_]={constructor:!0,toString:!0,valueOf
:!0},k[g]=k[y]=k[w]={constructor:!0,toString:!0},k[b]={constructor:!0},i(x,function(e){for(var t in
k)if(E.call(k,t)){var
n=k[t];n[e]=E.call(n,e)}}),t.exports=r},{"../internal/arrayEach":63,"../internal/isIndex":121,"../internal/isLength":12
5,"../lang/isArguments":139,"../lang/isArray":140,"../lang/isFunction":142,"../lang/isObject":144,"../lang/isString":1
46,"../support":153}],151:[function(e,t,n){function
 r(e){e=a(e);for(var t=-1,n=i(e),r=n.length,o=Array(r);++t<r;){var s=n[t];o[t]=[s,e[s]]}return o}var
i=e("./keys"),a=e("../internal/toObject");t.exports=r},{"../internal/toObject":135,"./keys":149}],152:[function(e,t,n){f
unction r(e){return i(e,a(e))}var
i=e("../internal/baseValues"),a=e("./keys");t.exports=r},{"../internal/baseValues":91,"./keys":149}],153:[function(e,t
,n){var
r=Array.prototype,i=Error.prototype,a=Object.prototype,o=a.propertyIsEnumerable,s=r.splice,l={};!function(e){var
t=function(){this.x=e},n={0:e,length:e},r=[];t.prototype={valueOf:e,y:e};for(var a in new
t)r.push(a);l.enumErrorProps=o.call(i,"message")||o.call(i,"name"),l.enumPrototypes=o.call(t,"prototype"),l.nonEnu
mShadows=!/valueOf/.test(r),l.ownLast="x"!=r[0],l.spliceObjects=(s.call(n,0,1),!n[0]),l.unindexedChars="x"[0]+Ob
ject("x")[0]!="xx"}(1,0),t.exports=l},{}],154:[function(e,t,n){function
 r(e){return e}t.exports=r},{}],155:[function(e,t,n){function r(){}t.exports=r},{}],156:[function(e,t,n){function
r(e){return o(e)?i(e):a(e)}var
i=e("../internal/baseProperty"),a=e("../internal/basePropertyDeep"),o=e("../internal/isKey");t.exports=r},{"../internal/
baseProperty":86,"../internal/basePropertyDeep":87,"../internal/isKey":123}],157:[function(e,n,r){(function(e){!func
tion(e){"use strict";if("function"==typeof bootstrap)bootstrap("promise",e);else if("object"==typeof
r&&"object"==typeof n)n.exports=e();else if("function"==typeof t&&t.amd)t(e);else if("undefined"!=typeof
ses){if(!ses.ok())return;ses.makeQ=e}else{if("undefined"==typeof window&&"undefined"==typeof self)throw new
Error("This environment was not anticipated by Q. Please file a bug.");var i="undefined"!=typeof
window?window:self,a=i.Q;i.Q=e(),i.Q.noConflict=function(){return i.Q=a,this}}}(function(){"use strict";function
t(e){return function(){return Q.apply(e,arguments)}}function
 n(e){return e===Object(e)}function r(e){return"[object StopIteration]"===re(e)||e instanceof H}function
i(e,t){if($&&t.stack&&"object"==typeof e&&null!==e&&e.stack&&e.stack.indexOf(ie)===-1){for(var
n=[],r=t;r;r=r.source)r.stack&&n.unshift(r.stack);n.unshift(e.stack);var i=n.join("\n"+ie+"\n");e.stack=a(i)}}function
a(e){for(var t=e.split("\n"),n=[],r=0;r<t.length;++r){var i=t[r];l(i)||o(i)||!i||n.push(i)}return n.join("\n")}function
o(e){return e.indexOf("(module.js:")!==-1||e.indexOf("(node.js:")!==-1}function s(e){var t=/at .+
\((.+):(\d+):(?:\d+)\)$/.exec(e);if(t)return[t[1],Number(t[2])];var n=/at ([^
]+):(\d+):(?:\d+)$/.exec(e);if(n)return[n[1],Number(n[2])];var r=/.*@(.+):(\d+)$/.exec(e);return
r?[r[1],Number(r[2])]:void 0}function l(e){var t=s(e);if(!t)return!1;var n=t[0],r=t[1];return
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n===V&&r>=Y&&r<=ue}function u(){if($)try{throw new Error}catch(e){var t=e.stack.split("\n"),n=t[0].indexOf("@")>0?t[1]:t[2],r=s(n);if(!r)return;return V=r[0],r[1]}}function c(e,t,n){return function(){return"undefined"!=typeof console&&"function"==typeof console.warn&&console.warn(t+" is deprecated, use "+n+" instead.",new Error("").stack),e.apply(e,arguments)}}function p(e){return e instanceof m?e:b(e)?k(e):O(e)}function h(){function e(e){t=e,a.source=e,K(n,function(t,n){p.nextTick(function(){e.promiseDispatch.apply(e,n)})},void 0),n=void 0,r=void 0}var t,n=[],r=[],i=ee(h.prototype),a=ee(m.prototype);if(a.promiseDispatch=function(e,i,a){var o=G(arguments);n?(n.push(o),"when"===i&&a[1]&&r.push(a[1])):p.nextTick(function(){t.promiseDispatch.apply(t,o)})},a.valueOf=function(){if(n)return a;var e=y(t);return v(e)&&(t=e),e},a.inspect=function(){return t?t.inspect():{state:"pending"}},p.longStackSupport&&$)try{throw new Error}catch(o){a.stack=o.stack.substring(o.stack.indexOf("\n")+1)}return i.promise=a,i.resolve=function(n){t||e(p(n))},i.fulfill=function(n){t||e(O(n))},i.reject=function(n){t||e(E(n))},i.notify=function(e){t||K(r,function(t,n){p.nextTick(function(){n(e)})},void 0)},i}function f(e){if("function"!=typeof e)throw new TypeError("resolver must be a function.");var t=h();try{e(t.resolve,t.reject,t.notify)}catch(n){t.reject(n)}return t.promise}function d(e){return f(function(t,n){for(var r=0,i=e.length;r<i;r++)p(e[r]).then(t,n)})}function m(e,t,n){void 0===t&&(t=function(e){return E(new Error("Promise does not support operation: "+e))}),void 0===n&&(n=function(){return{state:"unknown"}});var r=ee(m.prototype);if(r.promiseDispatch=function(n,i,a){var o;try{o=e[i]?e[i].apply(r,a):t.call(r,i,a)}catch(s){o=E(s)}n&&n(o)},r.inspect=n,n){var i=n();"rejected"===i.state&&(r.exception=i.reason),r.valueOf=function(){var e=n();return"pending"===e.state||"rejected"===e.state?r:e.value}}return r}function g(e,t,n,r){return p(e).then(t,n,r)}function y(e){if(v(e)){var t=e.inspect();if("fulfilled"===t.state)return t.value}return e}function v(e){return e instanceof m}function b(e){return n(e)&&"function"==typeof e.then}function w(e){return v(e)&&"pending"===e.inspect().state}function _(e){return!v(e)||"fulfilled"===e.inspect().state}function x(e){return v(e)&&"rejected"===e.inspect().state}function A(){ae.length=0,oe.length=0,le||(le=!0)}function S(t,n){le&&("object"==typeof e&&"function"==typeof e.emit&&p.nextTick.runAfter(function(){X(oe,t)!==-1&&(e.emit("unhandledRejection",n,t),se.push(t))}),oe.push(t),n&&"undefined"!=typeof n.stack?ae.push(n.stack):ae.push("(no stack) "+n))}function j(t){if(le){var n=X(oe,t);n!==-1&&("object"==typeof e&&"function"==typeof e.emit&&p.nextTick.runAfter(function(){var r=X(se,t);r!==-1&&(e.emit("rejectionHandled",ae[n],t),se.splice(r,1))}),oe.splice(n,1),ae.splice(n,1))}}function E(e){var t=m({when:function(t){return t&&j(this),t?t(e):this}},function(){return this},function(){return{state:"rejected",reason:e}});return S(t,e),t}function O(e){return m({when:function(){return e},get:function(t){return e[t]},set:function(t,n){e[t]=n},"delete":function(t){delete e[t]},post:function(t,n){return null===t||void 0===t?e.apply(void 0,n):e[t].apply(e,n)},apply:function(t,n){return e.apply(t,n)},keys:function(){return ne(e)}},void 0,function(){return{state:"fulfilled",value:e}})}function k(e){var t=h();return p.nextTick(function(){try{e.then(t.resolve,t.reject,t.notify)}catch(n){t.reject(n)}}),t.promise}function T(e){return m({isDef:function(){}},function(t,n){return R(e,t,n)},function(){return p(e).inspect()})}function C(e,t,n){return p(e).spread(t,n)}function I(e){return function(){function t(e,t){var o;if("undefined"==typeof StopIteration){try{o=n[e](t)}catch(s){return E(s)}return o.done?p(o.value):g(o.value,i,a)}try{o=n[e](t)}catch(s){return r(s)?p(s.value):E(s)}return g(o,i,a)}var n=e.apply(this,arguments),i=t.bind(t,"next"),a=t.bind(t,"throw");return i()}}function D(e){p.done(p.async(e)())}function L(e){throw new H(e)}function M(e){return function(){return C([this,U(arguments)],function(t,n){return e.apply(t,n)})}}function R(e,t,n){return p(e).dispatch(t,n)}function U(e){return g(e,function(e){var t=0,n=h();return K(e,function(r,i,a){var o;v(i)&&"fulfilled"===(o=i.inspect()).state?e[a]=o.value:(++t,g(i,function(r){e[a]=r,0===--

t&&n.resolve(e)},n.reject,function(e){n.notify({index:a,value:e})}))},void
0),0===t&&n.resolve(e),n.promise})}function P(e){if(0===e.length)return p.resolve();var t=p.defer(),n=0;return
K(e,function(r,i,a){function o(e){t.resolve(e)}function s(){n--,0===n&&t.reject(new Error("Can't get fulfillment
value from any promise, all promises were rejected."))}function l(e){t.notify({index:a,value:e})}var
u=e[a];n++,g(u,o,s,l)},void 0),t.promise}function q(e){return g(e,function(e){return
e=Z(e,p),g(U(Z(e,function(e){return g(e,J,J)})),function(){return e})})}function B(e){return
p(e).allSettled()}function N(e,t){return p(e).then(void 0,void 0,t)}function z(e,t){return p(e).nodeify(t)}var
$=!1;try{throw new Error}catch(F){$=!!F.stack}var V,H,Y=u(),J=function(){},W=function(){function t(){for(var
e,t;r.next;)r=r.next,e=r.task,r.task=void 0,t=r.domain,t&&(r.domain=void
0,t.enter()),n(e,t);for(;l.length;)e=l.pop(),n(e);a=!1}function n(e,n){try{e()}catch(r){if(s)throw
n&&n.exit(),setTimeout(t,0),n&&n.enter(),r;setTimeout(function(){throw r},0)}n&&n.exit()}var r={task:void
0,next:null},i=r,a=!1,o=void
0,s=!1,l=[];if(W=function(t){i=i.next={task:t,domain:s&&e.domain,next:null},a||(a=!0,o())},"object"==typeof
e&&"[object process]"===e.toString()&&e.nextTick)s=!0,o=function(){e.nextTick(t)};else if("function"==typeof
setImmediate)o="undefined"!=typeof window?setImmediate.bind(window,t):function(){setImmediate(t)};else
if("undefined"!=typeof MessageChannel){var u=new
MessageChannel;u.port1.onmessage=function(){o=c,u.port1.onmessage=t,t()};var
c=function(){u.port2.postMessage(0)};o=function(){setTimeout(t,0),c()}}else o=function(){setTimeout(t,0)};return
W.runAfter=function(e){l.push(e),a||(a=!0,o())},W}(),Q=Function.call,G=t(Array.prototype.slice),K=t(Array.prototype.reduce||function(e,t){var n=0,r=this.length;if(1===arguments.length)for(;;){if(n
in this){t=this[n++];break}if(++n>=r)throw new TypeError}for(;n<r;n++)n in this&&(t=e(t,this[n],n));return
t}),X=t(Array.prototype.indexOf||function(e){for(var t=0;t<this.length;t++)if(this[t]===e)return t;return-
1}),Z=t(Array.prototype.map||function(e,t){var n=this,r=[];return K(n,function(i,a,o){r.push(e.call(t,a,o,n))},void
0),r}),ee=Object.create||function(e){function t(){}return t.prototype=e,new
t},te=t(Object.prototype.hasOwnProperty),ne=Object.keys||function(e){var t=[];for(var n in
e)te(e,n)&&t.push(n);return t},re=t(Object.prototype.toString);H="undefined"!=typeof
ReturnValue?ReturnValue:function(e){this.value=e};var ie="From previous
event:";p.resolve=p,p.nextTick=W,p.longStackSupport=!1,"object"==typeof
e&&e&&e.env&&e.env.Q_DEBUG&&(p.longStackSupport=!0),p.defer=h,h.prototype.makeNodeResolver=functio
n(){var e=this;return
function(t,n){t?e.reject(t):arguments.length>2?e.resolve(G(arguments,1)):e.resolve(n)}},p.Promise=f,p.promise=f,f.r
ace=d,f.all=U,f.reject=E,f.resolve=p,p.passByCopy=function(e){return
e},m.prototype.passByCopy=function(){return this},p.join=function(e,t){return
p(e).join(t)},m.prototype.join=function(e){return p([this,e]).spread(function(e,t){if(e===t)return e;throw new
Error("Can't join: not the same: "+e+" "+t)})},p.race=d,m.prototype.race=function(){return
this.then(p.race)},p.makePromise=m,m.prototype.toString=function(){return"[object
Promise]"},m.prototype.then=function(e,t,n){function r(t){try{return"function"==typeof e?e(t):t}catch(n){return
E(n)}}function a(e){if("function"==typeof t){i(e,s);try{return t(e)}catch(n){return E(n)}}return E(e)}function
o(e){return"function"==typeof n?n(e):e}var s=this,l=h(),u=!1;return
p.nextTick(function(){s.promiseDispatch(function(e){u||(u=!0,l.resolve(r(e)))},"when",[function(e){u||(u=!0,l.resolv
e(a(e)))}])}),s.promiseDispatch(void 0,"when",[void 0,function(e){var
t,n=!1;try{t=o(e)}catch(r){if(n=!0,!p.onerror)throw
r;p.onerror(r)}n||l.notify(t)}]),l.promise},p.tap=function(e,t){return p(e).tap(t)},m.prototype.tap=function(e){return
e=p(e),this.then(function(t){return
e.fcall(t).thenResolve(t)})},p.when=g,m.prototype.thenResolve=function(e){return this.then(function(){return
e})},p.thenResolve=function(e,t){return p(e).thenResolve(t)},m.prototype.thenReject=function(e){return
this.then(function(){throw e})},p.thenReject=function(e,t){return
p(e).thenReject(t)},p.nearer=y,p.isPromise=v,p.isPromiseAlike=b,p.isPending=w,m.prototype.isPending=function()

{return"pending"===this.inspect().state},p.isFulfilled=_,m.prototype.isFulfilled=function(){return"fulfilled"===this
.inspect().state},p.isRejected=x,m.prototype.isRejected=function(){return"rejected"===this.inspect().state};var
ae=[],oe=[],se=[],le=!0;p.resetUnhandledRejections=A,p.getUnhandledReasons=function(){return
ae.slice()},p.stopUnhandledRejectionTracking=function(){A(),le=!1},A(),p.reject=E,p.fulfill=O,p.master=T,p.sprea
d=C,m.prototype.spread=function(e,t){return this.all().then(function(t){return e.apply(void
0,t)},t)},p.async=I,p.spawn=D,p["return"]=L,p.promised=M,p.dispatch=R,m.prototype.dispatch=function(e,t){var
n=this,r=h();return p.nextTick(function(){n.promiseDispatch(r.resolve,e,t)}),r.promise},p.get=function(e,t){return
p(e).dispatch("get",[t])},m.prototype.get=function(e){return this.dispatch("get",[e])},p.set=function(e,t,n){return
p(e).dispatch("set",[t,n])},m.prototype.set=function(e,t){return
this.dispatch("set",[e,t])},p.del=p["delete"]=function(e,t){return
p(e).dispatch("delete",[t])},m.prototype.del=m.prototype["delete"]=function(e){return
this.dispatch("delete",[e])},p.mapply=p.post=function(e,t,n){return
p(e).dispatch("post",[t,n])},m.prototype.mapply=m.prototype.post=function(e,t){return
this.dispatch("post",[e,t])},p.send=p.mcall=p.invoke=function(e,t){return
p(e).dispatch("post",[t,G(arguments,2)])},m.prototype.send=m.prototype.mcall=m.prototype.invoke=function(e){ret
urn this.dispatch("post",[e,G(arguments,1)])},p.fapply=function(e,t){return p(e).dispatch("apply",[void
0,t])},m.prototype.fapply=function(e){return
this.dispatch("apply",[void 0,e])},p["try"]=p.fcall=function(e){return p(e).dispatch("apply",[void
0,G(arguments,1)])},m.prototype.fcall=function(){return this.dispatch("apply",[void
0,G(arguments)])},p.fbind=function(e){var t=p(e),n=G(arguments,1);return function(){return
t.dispatch("apply",[this,n.concat(G(arguments))])}},m.prototype.fbind=function(){var e=this,t=G(arguments);return
function(){return e.dispatch("apply",[this,t.concat(G(arguments))])}},p.keys=function(e){return
p(e).dispatch("keys",[])},m.prototype.keys=function(){return
this.dispatch("keys",[])},p.all=U,m.prototype.all=function(){return
U(this)},p.any=P,m.prototype.any=function(){return
P(this)},p.allResolved=c(q,"allResolved","allSettled"),m.prototype.allResolved=function(){return
q(this)},p.allSettled=B,m.prototype.allSettled=function(){return this.then(function(e){return
U(Z(e,function(e){function t(){return e.inspect()}return
e=p(e),e.then(t,t)}))})},p.fail=p["catch"]=function(e,t){return
p(e).then(void 0,t)},m.prototype.fail=m.prototype["catch"]=function(e){return this.then(void
0,e)},p.progress=N,m.prototype.progress=function(e){return this.then(void 0,void
0,e)},p.fin=p["finally"]=function(e,t){return
p(e)["finally"](t)},m.prototype.fin=m.prototype["finally"]=function(e){return e=p(e),this.then(function(t){return
e.fcall().then(function(){return t})},function(t){return e.fcall().then(function(){throw
t})})},p.done=function(e,t,n,r){return p(e).done(t,n,r)},m.prototype.done=function(t,n,r){var
a=function(e){p.nextTick(function(){if(i(e,o),!p.onerror)throw
e;p.onerror(e)})},o=t||n||r?this.then(t,n,r):this;"object"==typeof
e&&e&&e.domain&&(a=e.domain.bind(a)),o.then(void 0,a)},p.timeout=function(e,t,n){return
p(e).timeout(t,n)},m.prototype.timeout=function(e,t){var n=h(),r=setTimeout(function(){t&&"string"!=typeof
t||(t=new Error(t||"Timed out after "+e+" ms"),t.code="ETIMEDOUT"),n.reject(t)},e);return
this.then(function(e){clearTimeout(r),n.resolve(e)},function(e){clearTimeout(r),n.reject(e)},n.notify),n.promise},p.d
elay=function(e,t){return
void 0===t&&(t=e,e=void 0),p(e).delay(t)},m.prototype.delay=function(e){return this.then(function(t){var
n=h();return setTimeout(function(){n.resolve(t)},e),n.promise})},p.nfapply=function(e,t){return
p(e).nfapply(t)},m.prototype.nfapply=function(e){var t=h(),n=G(e);return
n.push(t.makeNodeResolver()),this.fapply(n).fail(t.reject),t.promise},p.nfcall=function(e){var
t=G(arguments,1);return p(e).nfapply(t)},m.prototype.nfcall=function(){var e=G(arguments),t=h();return
e.push(t.makeNodeResolver()),this.fapply(e).fail(t.reject),t.promise},p.nfbind=p.denodeify=function(e){var

t=G(arguments,1);return function(){var n=t.concat(G(arguments)),r=h();return n.push(r.makeNodeResolver()),p(e).fapply(n).fail(r.reject),r.promise}},m.prototype.nfbind=m.prototype.denodeify=function(){var e=G(arguments);return e.unshift(this),p.denodeify.apply(void 0,e)},p.nbind=function(e,t){var n=G(arguments,2);return function(){function r(){return e.apply(t,arguments)}var i=n.concat(G(arguments)),a=h();return i.push(a.makeNodeResolver()),p(r).fapply(i).fail(a.reject),a.promise}},m.prototype.nbind=function(){var e=G(arguments,0);return e.unshift(this),p.nbind.apply(void 0,e)},p.nmapply=p.npost=function(e,t,n){return p(e).npost(t,n)},m.prototype.nmapply=m.prototype.npost=function(e,t){var n=G(t||[]),r=h();return n.push(r.makeNodeResolver()),this.dispatch("post",[e,n]).fail(r.reject),r.promise},p.nsend=p.nmcall=p.ninvoke=function(e,t){var n=G(arguments,2),r=h();return n.push(r.makeNodeResolver()),p(e).dispatch("post",[t,n]).fail(r.reject),r.promise},m.prototype.nsend=m.prototype.nmcall=m.prototype.ninvoke=function(e){var t=G(arguments,1),n=h();return t.push(n.makeNodeResolver()),this.dispatch("post",[e,t]).fail(n.reject),n.promise},p.nodeify=z,m.prototype.nodeify=function(e){return e?void this.then(function(t){p.nextTick(function(){e(null,t)})},function(t){p.nextTick(function(){e(t)})}):this},p.noConflict=function(){throw new Error("Q.noConflict only works when Q is used as a global")};var ue=u();return p})}).call(this,e("_process"))},{_process:12}],158:[function(e,t,n){function r(){}function i(e){if(!y(e))return e;var t=[];for(var n in e)a(t,n,e[n]);return t.join("&")}function a(e,t,n){if(null!=n)if(Array.isArray(n))n.forEach(function(n){a(e,t,n)});else if(y(n))for(var r in n)a(e,t+"["+r+"]",n[r]);else e.push(encodeURIComponent(t)+"="+encodeURIComponent(n));else null===n&&e.push(encodeURIComponent(t))}function o(e){for(var t,n,r={},i=e.split("&"),a=0,o=i.length;a<o;++a)t=i[a],n=t.indexOf("="),n==-1?r[decodeURIComponent(t)]="":r[decodeURIComponent(t.slice(0,n))]=decodeURIComponent(t.slice(n+1));return r}function s(e){var t,n,r,i,a=e.split(/\r?\n/),o={};a.pop();for(var s=0,l=a.length;s<l;++s)n=a[s],t=n.indexOf(":"),r=n.slice(0,t).toLowerCase(),i=b(n.slice(t+1)),o[r]=i;return o}function l(e){return/[\/+]json\b/.test(e)}function u(e){return e.split(/ *; */).shift()}function c(e){return e.split(/ *; */).reduce(function(e,t){var n=t.split(/ *= */),r=n.shift(),i=n.shift();return r&&i&&(e[r]=i),e},{})}function p(e,t){t=t||{},this.req=e,this.xhr=this.req.xhr,this.text="HEAD"!=this.req.method&&(""===this.xhr.responseType||"text"===this.xhr.responseType)||"undefined"==typeof this.xhr.responseType?this.xhr.responseText:null,this.statusText=this.req.xhr.statusText,this._setStatusProperties(this.xhr.status),this.header=this.headers=s(this.xhr.getAllResponseHeaders()),this.header["content-type"]=this.xhr.getResponseHeader("content-type"),this._setHeaderProperties(this.header),this.body="HEAD"!=this.req.method?this._parseBody(this.text?this.text:this.xhr.response):null}function h(e,t){var n=this;this._query=this._query||[],this.method=e,this.url=t,this.header={},this._header={},this.on("end",function(){var e=null,t=null;try{t=new p(n)}catch(r){return e=new Error("Parser is unable to parse the response"),e.parse=!0,e.original=r,e.rawResponse=n.xhr&&n.xhr.responseText?n.xhr.responseText:null,e.statusCode=n.xhr&&n.xhr.status?n.xhr.status:null,n.callback(e)}n.emit("response",t);var i;try{(t.status<200||t.status>=300)&&(i=new Error(t.statusText||"Unsuccessful HTTP response"),i.original=e,i.response=t,i.status=t.status)}catch(r){i=r}i?n.callback(i,t):n.callback(null,t)})}function f(e,t){var n=v("DELETE",e);return t&&n.end(t),n}var d;"undefined"!=typeof window?d=window:"undefined"!=typeof self?d=self:(console.warn("Using browser-only version of superagent in non-browser environment"),d=this);var m=e("emitter"),g=e("./request-base"),y=e("./is-object"),v=t.exports=e("./request").bind(null,h);v.getXHR=function(){if(!(!d.XMLHttpRequest||d.location&&"file:"==d.location.protocol&&d.ActiveXObject))return new XMLHttpRequest;try{return new ActiveXObject("Microsoft.XMLHTTP")}catch(e){}try{return new ActiveXObject("Msxml2.XMLHTTP.6.0")}catch(e){}try{return new

ActiveXObject("Msxml2.XMLHTTP.3.0")}catch(e){}try{return new ActiveXObject("Msxml2.XMLHTTP")}catch(e){}throw Error("Browser-only verison of superagent could not find XHR")};var b="".trim?function(e){return e.trim()}:function(e){return e.replace(/(^\s*|\s*$)/g,"")};v.serializeObject=i,v.parseString=o,v.types={html:"text/html",json:"application/json",xml:"application/xml",urlencoded:"application/x-www-form-urlencoded",form:"application/x-www-form-urlencoded","form-data":"application/x-www-form-urlencoded"},v.serialize={"application/x-www-form-urlencoded":i,"application/json":JSON.stringify},v.parse={"application/x-www-form-urlencoded":o,"application/json":JSON.parse},p.prototype.get=function(e){return this.header[e.toLowerCase()]},p.prototype._setHeaderProperties=function(e){var t=this.header["content-type"]||"";this.type=u(t);var n=c(t);for(var r in n)this[r]=n[r]},p.prototype._parseBody=function(e){var t=v.parse[this.type];return!t&&l(this.type)&&(t=v.parse["application/json"]),t&&e&&(e.length||e instanceof Object)?t(e):null},p.prototype._setStatusProperties=function(e){1223===e&&(e=204);var t=e/100|0;this.status=this.statusCode=e,this.statusType=t,this.info=1==t,this.ok=2==t,this.clientError=4==t,this.serverError=5==t,this.error=(4==t||5==t)&&this.toError(),this.accepted=202==e,this.noContent=204==e,this.badRequest=400==e,this.unauthorized=401==e,this.notAcceptable=406==e,this.notFound=404==e,this.forbidden=403==e},p.prototype.toError=function(){var e=this.req,t=e.method,n=e.url,r="cannot "+t+" "+n+" ("+this.status+")",i=new Error(r);return i.status=this.status,i.method=t,i.url=n,i},v.Response=p,m(h.prototype);for(var w in g)h.prototype[w]=g[w];h.prototype.type=function(e){return this.set("Content-Type",v.types[e]||e),this},h.prototype.responseType=function(e){return this._responseType=e,this},h.prototype.accept=function(e){return this.set("Accept",v.types[e]||e),this},h.prototype.auth=function(e,t,n){switch(n||(n={type:"basic"}),n.type){case"basic":var r=btoa(e+":"+t);this.set("Authorization","Basic "+r);break;case"auto":this.username=e,this.password=t}return this},h.prototype.query=function(e){return"string"!=typeof e&&(e=i(e)),e&&this._query.push(e),this},h.prototype.attach=function(e,t,n){return this._getFormData().append(e,t,n||t.name),this},h.prototype._getFormData=function(){return this._formData||(this._formData=new d.FormData),this._formData},h.prototype.callback=function(e,t){var n=this._callback;this.clearTimeout(),n(e,t)},h.prototype.crossDomainError=function(){var e=new Error("Request has been terminated\nPossible causes: the network is offline, Origin is not allowed by Access-Control-Allow-Origin, the page is being unloaded, etc.");e.crossDomain=!0,e.status=this.status,e.method=this.method,e.url=this.url,this.callback(e)},h.prototype._timeoutError=function(){var e=this._timeout,t=new Error("timeout of "+e+"ms exceeded");t.timeout=e,this.callback(t)},h.prototype._appendQueryString=function(){var e=this._query.join("&");e&&(this.url+=~this.url.indexOf("?")?"&"+e:"?"+e)},h.prototype.end=function(e){var t=this,n=this.xhr=v.getXHR(),i=this._timeout,a=this._formData||this._data;this._callback=e||r,n.onreadystatechange=function(){if(4==n.readyState){var e;try{e=n.status}catch(r){e=0}if(0==e){if(t.timedout)return t._timeoutError();if(t._aborted)return;return t.crossDomainError()}t.emit("end")}};var o=function(e){e.total>0&&(e.percent=e.loaded/e.total*100),e.direction="download",t.emit("progress",e)};this.hasListeners("progress")&&(n.onprogress=o);try{n.upload&&this.hasListeners("progress")&&(n.upload.onprogress=o)}catch(s){}if(i&&!this._timer&&(this._timer=setTimeout(function(){t.timedout=!0,t.abort()},i)),this._appendQueryString(),this.username&&this.password?n.open(this.method,this.url,!0,this.username,this.password):n.open(this.method,this.url,!0),this._withCredentials&&(n.withCredentials=!0),"GET"!=this.method&&"HEAD"!=this.method&&"string"!=typeof a&&!this._isHost(a)){var u=this._header["content-type"],c=this._serializer||v.serialize[u?u.split(";")[0]:""];!c&&l(u)&&(c=v.serialize["application/json"]),c&&(a=c(a))}for(var p in this.header)null!=this.header[p]&&n.setRequestHeader(p,this.header[p]);return this._responseType&&(n.responseType=this._responseType),this.emit("request",this),n.send("undefined"!=typeof a?a:null),this},v.Request=h,v.get=function(e,t,n){var r=v("GET",e);return"function"==typeof

t&&(n=t,t=null),t&&r.query(t),n&&r.end(n),r},v.head=function(e,t,n){var
r=v("HEAD",e);return"function"==typeof
t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r},v.options=function(e,t,n){var
r=v("OPTIONS",e);return"function"==typeof
t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r},v.del=f,v["delete"]=f,v.patch=function(e,t,n){var
r=v("PATCH",e);return"function"==typeof
t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r},v.post=function(e,t,n){var r=v("POST",e);return"function"==typeof
t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r},v.put=function(e,t,n){var r=v("PUT",e);return"function"==typeof
t&&(n=t,t=null),t&&r.send(t),n&&r.end(n),r}},{"./is-object":159,"./request":161,"./request-
base":160,emitter:162}],159:[function(e,t,n){function r(e){return
null!==e&&"object"==typeof e}t.exports=r},{}],160:[function(e,t,n){var r=e("./is-
object");n.clearTimeout=function(){return
this._timeout=0,clearTimeout(this._timer),this},n.parse=function(e){return
this._parser=e,this},n.serialize=function(e){return this._serializer=e,this},n.timeout=function(e){return
this._timeout=e,this},n.then=function(e,t){if(!this._fullfilledPromise){var n=this;this._fullfilledPromise=new
Promise(function(e,t){n.end(function(n,r){n?t(n):e(r)})})}return
this._fullfilledPromise.then(e,t)},n.use=function(e){return e(this),this},n.get=function(e){return
this._header[e.toLowerCase()]},n.getHeader=n.get,n.set=function(e,t){if(r(e)){for(var n in e)this.set(n,e[n]);return
this}return this._header[e.toLowerCase()]=t,this.header[e]=t,this},n.unset=function(e){return delete
this._header[e.toLowerCase()],delete this.header[e],this},n.field=function(e,t){return
this._getFormData().append(e,t),this},n.abort=function(){return
this._aborted?this:(this._aborted=!0,this.xhr&&this.xhr.abort(),this.req&&this.req.abort(),this.clearTimeout(),this.e
mit("abort"),this)},n.withCredentials=function(){return
this._withCredentials=!0,this},n.redirects=function(e){return
this._maxRedirects=e,this},n.toJSON=function(){return{method:this.method,url:this.url,data:this._data,headers:this.
_header}},n._isHost=function(e){var t={}.toString.call(e);switch(t){case"[object File]":case"[object
Blob]":case"[object FormData]":return!0;default:return!1}},n.send=function(e){var t=r(e),n=this._header["content-
type"];if(t&&r(this._data))for(var i in e)this._data[i]=e[i];else"string"==typeof
e?(n||this.type("form"),n=this._header["content-type"],"application/x-www-form-
urlencoded"==n?this._data=this._data?this._data+"&"+e:e:this._data=(this._data||"")+e):this._data=e;return!t||this._i
sHost(e)?this:(n||this.type("json"),this)}},{"./is-object":159}],161:[function(e,t,n){function
r(e,t,n){return"function"==typeof n?new e("GET",t).end(n):2==arguments.length?new e("GET",t):new
e(t,n)}t.exports=r},{}],162:[function(e,t,n){function
r(e){if(e)return i(e)}function i(e){for(var t in r.prototype)e[t]=r.prototype[t];return e}"undefined"!=typeof
t&&(t.exports=r),r.prototype.on=r.prototype.addEventListener=function(e,t){return
this._callbacks=this._callbacks||{},(this._callbacks["$"+e]=this._callbacks["$"+e]||[]).push(t),this},r.prototype.once=
function(e,t){function n(){this.off(e,n),t.apply(this,arguments)}return
n.fn=t,this.on(e,n),this},r.prototype.off=r.prototype.removeListener=r.prototype.removeAllListeners=r.prototype.re
moveEventListener=function(e,t){if(this._callbacks=this._callbacks||{},0==arguments.length)return
this._callbacks={},this;var n=this._callbacks["$"+e];if(!n)return this;if(1==arguments.length)return delete
this._callbacks["$"+e],this;for(var r,i=0;i<n.length;i++)if(r=n[i],r===t||r.fn===t){n.splice(i,1);break}return
this},r.prototype.emit=function(e){this._callbacks=this._callbacks||{};var
t=[].slice.call(arguments,1),n=this._callbacks["$"+e];if(n){n=n.slice(0);for(var
r=0,i=n.length;r<i;++r)n[r].apply(this,t)}return this},r.prototype.listeners=function(e){return
this._callbacks=this._callbacks||{},this._callbacks["$"+e]||[]},r.prototype.hasListeners=function(e){return!!this.listen
ers(e).length}},{}]},{},[1])(1)}),window.SwaggerUi=Backbone.Router.extend({dom_id:"swagger_ui",options:null,
api:null,headerView:null,mainView:null,initialize:function(e){e=e||{},"model"!==e.defaultModelRendering&&(e.de
faultModelRendering="schema"),e.highlightSizeThreshold||(e.highlightSizeThreshold=1e5),e.dom_id&&(this.dom_

id=e.dom_id,delete
e.dom_id),e.supportedSubmitMethods||(e.supportedSubmitMethods=["get","put","post","delete","head","options","patch"]),"string"==typeof
e.oauth2RedirectUrl&&(window.oAuthRedirectUrl=e.oauth2RedirectUrl),$("#"+this.dom_id).length||$("body").append(' '),this.options=e,marked.setOptions({gfm:!0});var
t=this;this.options.success=function(){return t.render()},this.options.progress=function(e){return
t.showMessage(e)},this.options.failure=function(e){return
t.onLoadFailure(e)},this.headerView=new
SwaggerUi.Views.HeaderView({el:$("#header")}),this.headerView.on("update-swagger-ui",function(e){return
t.updateSwaggerUi(e)}),JSONEditor.defaults.iconlibs.swagger=JSONEditor.AbstractIconLib.extend({mapping:{collapse:"collapse",expand:"expand"},icon_prefix:"swagger-
"})},setOption:function(e,t){this.options[e]=t},getOption:function(e){return
this.options[e]},updateSwaggerUi:function(e){this.options.url=e.url,this.load()},load:function(){this.mainView&&this.mainView.clear(),this.authView&&this.authView.remove();var
e=this.options.url;e&&0!==e.indexOf("http")&&(e=this.buildUrl(window.location.href.toString(),e)),this.api&&(this.options.authorizations=this.api.clientAuthorizations.authz),this.options.url=e,this.headerView.update(e),this.api=new
SwaggerClient(this.options)},collapseAll:function(){Docs.collapseEndpointListForResource("")},listAll:function(){Docs.collapseOperationsForResource("")},expandAll:function(){Docs.expandOperationsForResource("")},render:function(){var
e;switch(this.showMessage("Finished Loading Resource Information. Rendering Swagger
UI..."),this.mainView=new
SwaggerUi.Views.MainView({model:this.api,el:$("#"+this.dom_id),swaggerOptions:this.options,router:this}).render(),_.isEmpty(this.api.securityDefinitions)||(e=_.map(this.api.securityDefinitions,function(e,t){var n={};return
n[t]=e,n}),this.authView=new
SwaggerUi.Views.AuthButtonView({data:SwaggerUi.utils.parseSecurityDefinitions(e),router:this}),$("#auth_container").append(this.authView.render().el)),this.showMessage(),this.options.docExpansion){case"full":this.expandAll();break;case"list":this.listAll()}this.renderGFM(),this.options.onComplete&&this.options.onComplete(this.api,this),setTimeout(Docs.shebang.bind(this),100)},buildUrl:function(e,t){if(0===t.indexOf("/")){var n=e.split("/");return
e=n[0]+"//"+n[2],e+t}var r=e.length;return e.indexOf("?")>-1&&(r=Math.min(r,e.indexOf("?"))),e.indexOf("#")>-1&&(r=Math.min(r,e.indexOf("#"))),e=e.substring(0,r),e.indexOf("/",e.length-1)!==-
1?e+t:e+"/"+t},showMessage:function(e){void
0===e&&(e="");var t=$("#message-bar");t.removeClass("message-fail"),t.addClass("message-success"),t.text(e),window.SwaggerTranslator&&window.SwaggerTranslator.translate(t)},onLoadFailure:function(e){void 0===e&&(e=""),$("#message-bar").removeClass("message-success"),$("#message-bar").addClass("message-fail");var t=$("#message-bar").text(e);return
this.options.onFailure&&this.options.onFailure(e),t},renderGFM:function(){$(".markdown").each(function(){$(this).html(marked($(this).html()))}),$(".propDesc",".model-signature
.description").each(function(){$(this).html(marked($(this).html())).addClass("markdown")})}}),window.SwaggerUi.Views={},window.SwaggerUi.Models={},window.SwaggerUi.Collections={},window.SwaggerUi.partials={},window.SwaggerUi.utils={},function(){function e(e){"console"in window&&"function"==typeof
window.console.warn&&console.warn(e)}window.authorizations={add:function(){if(e("Using
window.authorizations is deprecated. Please use SwaggerUi.api.clientAuthorizations.add()."),"undefined"==typeof
window.swaggerUi)throw new TypeError("window.swaggerUi is not defined");window.swaggerUi instanceof
SwaggerUi&&window.swaggerUi.api.clientAuthorizations.add.apply(window.swaggerUi.api.clientAuthorizations,arguments)}},window.ApiKeyAuthorization=function(){e("window.ApiKeyAuthorization is deprecated. Please use
SwaggerClient.ApiKeyAuthorization."),SwaggerClient.ApiKeyAuthorization.apply(window,arguments)},window.PasswordAuthorization=function(){e("window.PasswordAuthorization is deprecated. Please use

SwaggerClient.PasswordAuthorization."),SwaggerClient.PasswordAuthorization.apply(window,arguments)}}(),fun
ction(e,t){"function"==typeof define&&define.amd?define(["b"],function(n){return
e.SwaggerUi=t(n)}):"object"==typeof
exports?module.exports=t(require("b")):e.SwaggerUi=t(e.b)}(this,function(){return
SwaggerUi}),window.SwaggerUi.utils={parseSecurityDefinitions:function(e){var
t=Object.assign({},window.swaggerUi.api.authSchemes||window.swaggerUi.api.securityDefinitions),n=[],r=[],i=[],a
=window.SwaggerUi.utils;return Array.isArray(e)?(e.forEach(function(e){var o={},s={};for(var l in
e)if(Array.isArray(e[l])){if(!t[l])continue;if(t[l]=t[l]||{},"oauth2"===t[l].type){s[l]=Object.assign({},t[l]),s[l].scopes
=Object.assign({},t[l].scopes);for(var u in s[l].scopes)e[l].indexOf(u)<0&&delete
s[l].scopes[u];s[l].scopes=a.parseOauth2Scopes(s[l].scopes),i=_.merge(i,s[l].scopes)}else
o[l]=Object.assign({},t[l])}else"oauth2"===e[l].type?(s[l]=Object.assign({},e[l]),s[l].scopes=a.parseOauth2Scopes(
s[l].scopes),i=_.merge(i,s[l].scopes)):o[l]=e[l];_.isEmpty(o)||r.push(o),_.isEmpty(s)||n.push(s)}),{auths:r,oauth2:n,sc
opes:i}):null},parseOauth2Scopes:function(e){var t,n=Object.assign({},e),r=[];for(t in
n)r.push({scope:t,description:n[t]});return r},sanitize:function(e){return
e=e.replace(/<script\b[^<]*(?:(?!<\/script>)<[^<]*)*<\/script>/gi,""),e=e.replace(/(on\w+="[^"]*")*(on\w+='[^']*')*(
on\w+=\w*\(\w*\))*/gi,"")}},SwaggerUi.Models.ApiKeyAuthModel=Backbone.Model.extend({defaults:{"in":"",na
me:"",title:"",value:""},initialize:function(){this.on("change",this.validate)},validate:function(){var
e=!!this.get("value");return
this.set("valid",e),e}}),SwaggerUi.Views.ApiKeyAuthView=Backbone.View.extend({events:{"change
.input_apiKey_entry":"apiKeyChange"},selectors:{apikeyInput:".input_apiKey_entry"},template:Handlebars.templa
tes.apikey_auth,initialize:function(e){this.options=e||{},this.router=this.options.router},render:function(){return
this.$el.html(this.template(this.model.toJSON())),this},apiKeyChange:function(e){var
t=$(e.target).val();t&&this.$(this.selectors.apikeyInput).removeClass("error"),this.model.set("value",t)},isValid:fun
ction(){return
this.model.validate()},highlightInvalid:function(){this.isValid()||this.$(this.selectors.apikeyInput).addClass("error")}
}),SwaggerUi.Views.AuthButtonView=Backbone.View.extend({events:{"click
.authorize__btn":"authorizeBtnClick"},tpls:{popup:Handlebars.templates.popup,authBtn:Handlebars.templates.auth
_button,authBtnOperation:Handlebars.templates.auth_button_operation},initialize:function(e){this.options=e||{},thi
s.options.data=this.options.data||{},this.isOperation=this.options.isOperation,this.model=this.model||{},this.router=t
his.options.router,this.auths=this.options.data.oauth2.concat(this.options.data.auths)},render:function(){var
e=this.isOperation?"authBtnOperation":"authBtn";return
this.$authEl=this.renderAuths(this.auths),this.$el.html(this.tpls[e](this.model)),this},authorizeBtnClick:function(e){
var t;e.preventDefault(),t={title:"Available authorizations",content:this.$authEl},this.render(),this.popup=new
SwaggerUi.Views.PopupView({model:t}),this.popup.render()},renderAuths:function(e){var
t=$(" "),n=!1;return e.forEach(function(e){var r=new
SwaggerUi.Views.AuthView({data:e,router:this.router}),i=r.render().el;t.append(i),r.isLogout&&(n=!0)},this),this.
model.isLogout=n,t}}),SwaggerUi.Collections.AuthsCollection=Backbone.Collection.extend({constructor:function(
){var
e=Array.prototype.slice.call(arguments);e[0]=this.parse(e[0]),Backbone.Collection.apply(this,e)},add:function(e){v
ar t=Array.prototype.slice.call(arguments);Array.isArray(e)?t[0]=_.map(e,function(e){return
this.handleOne(e)},this):t[0]=this.handleOne(e),Backbone.Collection.prototype.add.apply(this,t)},handleOne:functio
n(e){var t=e;if(!(e instanceof Backbone.Model))switch(e.type){case"oauth2":t=new
SwaggerUi.Models.Oauth2Model(e);break;case"basic":t=new
SwaggerUi.Models.BasicAuthModel(e);break;case"apiKey":t=new
SwaggerUi.Models.ApiKeyAuthModel(e);break;default:t=new Backbone.Model(e)}return t},isValid:function(){var
e=!0;return this.models.forEach(function(t){t.validate()||(e=!1)}),e},isAuthorized:function(){return
this.length===this.where({isLogout:!0}).length},isPartiallyAuthorized:function(){return
this.where({isLogout:!0}).length>0},parse:function(e){var

t=Object.assign({},window.swaggerUi.api.clientAuthorizations.authz);return
_.map(e,function(e,n){var r=t[n]&&"basic"===e.type&&t[n].username&&t[n].password;return
.extend(e,{title:n}),(t[n]||r)&&.extend(e,{isLogout:!0,value:r?void 0:t[n].value,username:r?t[n].username:void
0,password:r?t[n].password:void
0,valid:!0}),e})}}),SwaggerUi.Views.AuthsCollectionView=Backbone.View.extend({initialize:function(e){this.opti
ons=e||{},this.options.data=this.options.data||{},this.router=this.options.router,this.collection=new
SwaggerUi.Collections.AuthsCollection(e.data),this.$innerEl=$(" "),this.authViews=[]},render:function(){retu
rn
this.collection.each(function(e){this.renderOneAuth(e)},this),this.$el.html(this.$innerEl.html()?this.$innerEl:""),this
},renderOneAuth:function(e){var
t,n,r,i=e.get("type");"apiKey"===i?r="ApiKeyAuthView":"basic"===i&&0===this.$innerEl.find(".basic_auth_cont
ainer").length?r="BasicAuthView":"oauth2"===i&&(r="Oauth2View"),r&&(n=new
SwaggerUi.Views[r]({model:e,router:this.router}),t=n.render().el,this.authViews.push(n)),this.$innerEl.append(t)},h
ighlightInvalid:function(){this.authViews.forEach(function(e){e.highlightInvalid()},this)}}),SwaggerUi.Views.Auth
View=Backbone.View.extend({events:{"click
.auth_submit__button":"authorizeClick","click
.auth_logout__button":"logoutClick"},tpls:{main:Handlebars.templates.auth_view},selectors:{innerEl:".auth_inner"
,authBtn:".auth_submit__button"},initialize:function(e){this.options=e||{},e.data=e.data||{},this.router=this.options.r
outer,this.authsCollectionView=new
SwaggerUi.Views.AuthsCollectionView({data:e.data}),this.$el.html(this.tpls.main({isLogout:this.authsCollectionV
iew.collection.isAuthorized(),isAuthorized:this.authsCollectionView.collection.isPartiallyAuthorized()})),this.$inne
rEl=this.$(this.selectors.innerEl),this.isLogout=this.authsCollectionView.collection.isPartiallyAuthorized()},render:f
unction(){return
this.$innerEl.html(this.authsCollectionView.render().el),this},authorizeClick:function(e){e.preventDefault(),e.stopP
ropagation(),this.authsCollectionView.collection.isValid()?this.authorize():this.authsCollectionView.highlightInvali
d()},authorize:function(){this.authsCollectionView.collection.forEach(function(e){var
t,n,r=e.get("type");"apiKey"===r?(t=new
SwaggerClient.ApiKeyAuthorization(e.get("name"),e.get("value"),e.get("in")),this.router.api.clientAuthorizations.ad
d(e.get("title"),t)):"basic"===r?(n=new
SwaggerClient.PasswordAuthorization(e.get("username"),e.get("password")),this.router.api.clientAuthorizations.ad
d(e.get("title"),n)):"oauth2"===r&&this.handleOauth2Login(e)},this),this.router.load()},logoutClick:function(e){e.p
reventDefault(),this.authsCollectionView.collection.forEach(function(e){window.swaggerUi.api.clientAuthorization
s.remove(e.get("title"))}),this.router.load()},handleOauth2Login:function(e){var
t,n,r,i=window.location,a=location.pathname.substring(0,location.pathname.lastIndexOf("/")),o=i.protocol+"//"+i.ho
st+a+"/o2c.html",s=window.oAuthRedirectUrl||o,l=null,u=_.map(e.get("scopes"),function(e){return
e.scope});window.OAuthSchemeKey=e.get("title"),window.enabledScopes=u;var
c=e.get("flow");if("oauth2"!==e.get("type")||!c||"implicit"!==c&&"accessCode"!==c){if("oauth2"===e.get("type")
&&c&&"application"===c)return n=e.attributes,window.swaggerUi.tokenName=n.tokenName||"access_token",void
this.clientCredentialsFlow(u,n.tokenUrl,window.OAuthSchemeKey);if(e.get("grantTypes")){var
p=e.get("grantTypes");for(var h in
p)p.hasOwnProperty(h)&&"implicit"===h?(n=p[h],r=n.loginEndpoint.url,l=n.loginEndpoint.url+"?response_type=t
oken",window.swaggerUi.tokenName=n.tokenName):p.hasOwnProperty(h)&&"accessCode"===h&&(n=p[h],r=n.t
okenRequestEndpoint.url,l=n.tokenRequestEndpoint.url+"?response_type=code",window.swaggerUi.tokenName=n.
tokenName)}}else
n=e.attributes,l=n.authorizationUrl+"?response_type="+("implicit"===c?"token":"code"),window.swaggerUi.token
Name=n.tokenName||"access_token",window.swaggerUi.tokenUrl="accessCode"===c?n.tokenUrl:null,t=window.O
AuthSchemeKey;redirect_uri=s,l+="&redirect_uri="+encodeURIComponent(s),l+="&realm="+encodeURIComponent(realm),l+="&client_id="+encodeURIComponent(clientId),l+="&scope="+encodeURIComponent(u.join(scopeS

eparator)),l+="&state="+encodeURIComponent(t);for(var
f in
additionalQueryStringParams)l+="&"+f+"="+encodeURIComponent(additionalQueryStringParams[f]);window.open(l)},clientCredentialsFlow:function(e,t,n){var r={client_id:clientId,client_secret:clientSecret,scope:e.join("
"),grant_type:"client_credentials"};$.ajax({url:t,type:"POST",data:r,success:function(e){onOAuthComplete(e,n)},error:function(){onOAuthComplete("")}})}}),SwaggerUi.Models.BasicAuthModel=Backbone.Model.extend({defaults:{username:"",password:"",title:"basic"},initialize:function(){this.on("change",this.validate)},validate:function(){var e=!!this.get("password")&&!!this.get("username");return
this.set("valid",e),e}}),SwaggerUi.Views.BasicAuthView=Backbone.View.extend({initialize:function(e){this.options=e||{},this.router=this.options.router},events:{"change
.auth_input":"inputChange"},selectors:{usernameInput:".basic_auth__username",passwordInput:".basic_auth__password"},cls:{error:"error"},template:Handlebars.templates.basic_auth,render:function(){return
$(this.el).html(this.template(this.model.toJSON())),this},inputChange:function(e){var
t=$(e.target),n=t.val(),r=t.prop("name");n&&t.removeClass(this.cls.error),this.model.set(r,n)},isValid:function(){return
this.model.validate()},highlightInvalid:function(){this.model.get("username")||this.$(this.selectors.usernameInput).addClass(this.cls.error)}}),SwaggerUi.Views.ContentTypeView=Backbone.View.extend({initialize:function(){},render:function(){return
this.model.contentTypeId="ct"+Math.random(),$(this.el).html(Handlebars.templates.content_type(this.model)),this}}),SwaggerUi.Views.HeaderView=Backbone.View.extend({events:{"click #show-pet-store-
icon":"showPetStore","click #explore":"showCustom","submit #api_selector":"showCustom","keyup
#input_baseUrl":"showCustomOnKeyup","keyup
#input_apiKey":"showCustomOnKeyup"},initialize:function(){},showPetStore:function(){this.trigger("update-swagger-
ui",{url:"http://petstore.swagger.io/v2/swagger.json"})},showCustomOnKeyup:function(e){13===e.keyCode&&this.showCustom()},showCustom:function(e){e&&e.preventDefault(),this.trigger("update-swagger-
ui",{url:$("#input_baseUrl").val()})},update:function(e,t,n){void
0===n&&(n=!1),$("#input_baseUrl").val(e),n&&this.trigger("update-swagger-
ui",{url:e})}}),SwaggerUi.Views.MainView=Backbone.View.extend({apisSorter:{alpha:function(e,t){return
e.name.localeCompare(t.name)}},operationsSorters:{alpha:function(e,t){return
e.path.localeCompare(t.path)},method:function(e,t){return
e.method.localeCompare(t.method)}},initialize:function(e){var
t,n,r,i;if(e=e||{},this.router=e.router,e.swaggerOptions.apisSorter&&(t=e.swaggerOptions.apisSorter,n=_.isFunction(t)?t:this.apisSorter[t],_.isFunction(n)&&this.model.apisArray.sort(n)),e.swaggerOptions.operationsSorter&&(t=e.swaggerOptions.operationsSorter,n=_.isFunction(t)?t:this.operationsSorters[t],_.isFunction(n)))for(r
in this.model.apisArray)this.model.apisArray[r].operationsArray.sort(n);this.model.auths=[];for(r in
this.model.securityDefinitions)i=this.model.securityDefinitions[r],this.model.auths.push({name:r,type:i.type,value:i});"validatorUrl"in
e.swaggerOptions?this.model.validatorUrl=e.swaggerOptions.validatorUrl:this.model.url.indexOf("localhost")>0||this.model.url.indexOf("127.0.0.1")>0?this.model.validatorUrl=null:this.model.validatorUrl="//online.swagger.io/validator";var a;for(a in
this.model.definitions)this.model.definitions[a].type||(this.model.definitions[a].type="object")},render:function(){$(this.el).html(Handlebars.templates.main(this.model)),this.info=this.$(".info")[0],this.info&&this.info.addEventListener("click",this.onLinkClick,!0),this.model.securityDefinitions=this.model.securityDefinitions||{};for(var
e={},t=0,n=0;n<this.model.apisArray.length;n++){for(var r=this.model.apisArray[n],i=r.name;"undefined"!=typeof
e[i];)i=i+"_"+t,t+=1;r.id=sanitizeHtml(i),e[i]=r,this.addResource(r,this.model.auths)}return
$(".propWrap").hover(function(){$(".optionsWrapper",$(this)).show()},function(){$(".optionsWrapper",$(this)).hide()}),this},addResource:function(e,t){e.id=e.id.replace(/\s/g,"_"),e.definitions=this.model.definitions;var n=new

SwaggerUi.Views.ResourceView({model:e,router:this.router,tagName:"li",id:"resource_"+e.id,className:"resource
",auths:t,swaggerOptions:this.options.swaggerOptions});$("#resources",this.el).append(n.render().el)},clear:function
(){$(this.el).html("")},onLinkClick:function(e){var
t=e.target;"A"===t.tagName&&t.href&&!t.target&&(e.preventDefault(),window.open(t.href,"_blank"))}}),Swagger
Ui.Models.Oauth2Model=Backbone.Model.extend({defaults:{scopes:{}},initialize:function(){this.on("change",this.
validate)},setScopes:function(e,t){var n=_.extend({},this.attributes),r=_.findIndex(n.scopes,function(t){return
t.scope===e});n.scopes[r].checked=t,this.set(n),this.validate()},validate:function(){var
e=!1,t=this.get("scopes"),n=_.findIndex(t,function(e){return e.checked===!0});return
t.length>0&&n>=0&&(e=!0),0===t.length&&(e=!0),this.set("valid",e),e}}),SwaggerUi.Views.Oauth2View=Backb
one.View.extend({events:{"change .oauth-
scope":"scopeChange"},template:Handlebars.templates.oauth2,render:function(){return
this.$el.html(this.template(this.model.toJSON())),this},scopeChange:function(e){var
t=$(e.target).prop("checked"),n=$(e.target).data("scope");this.model.setScopes(n,t)}}),SwaggerUi.Views.Operation
View=Backbone.View.extend({invocationUrl:null,events:{"submit .sandbox":"submitOperation","click
.submit":"submitOperation","click .response_hider":"hideResponse","click
.toggleOperation":"toggleOperationContent","mouseenter .api-ic":"mouseEnter","dblclick
.curl":"selectText","change [name=responseContentType]":"showSnippet"},initialize:function(e){return
e=e||{},this.router=e.router,this.auths=e.auths,this.parentId=this.model.parentId,this.nickname=this.model.nickname
,this.model.encodedParentId=encodeURIComponent(this.parentId),e.swaggerOptions&&(this.model.defaultRenderi
ng=e.swaggerOptions.defaultModelRendering,e.swaggerOptions.showRequestHeaders&&(this.model.showRequest
Headers=!0)),this},selectText:function(e){var
t,n,r=document,i=e.target.firstChild;r.body.createTextRange?(t=document.body.createTextRange(),t.moveToEleme
ntText(i),t.select()):window.getSelection&&(n=window.getSelection(),t=document.createRange(),t.selectNodeCont
ents(i),n.removeAllRanges(),n.addRange(t))},mouseEnter:function(e){var
t=$(this.el).find(".content"),n=e.pageX,r=e.pageY,i=$(window).scrollLeft(),a=$(window).scrollTop(),o=i+$(windo
w).width(),s=a+$(window).height(),l=t.width(),u=t.height();n+l>o&&(n=o-l),n<i&&(n=i),r+u>s&&(r=s-
u),r<a&&(r=a);var c={};c.top=r,c.left=n,t.css(c)},render:function(){var
e,t,n,r,i,a,o,s,l,u,c,p,h,f,d,m,g,y,v,b,w,x,A,S,j,E,O,k,T,C,I,D,L,M,R,U,P,q,B,N,z;if(a=jQuery.inArray(this.model.met
hod,this.model.supportedSubmitMethods())>=0,a||(this.model.isReadOnly=!0),this.model.description=this.model.de
scription||this.model.notes,this.model.oauth=null,m=this.model.authorizations||this.model.security)if(Array.isArray(
m))for(l=0,u=m.length;l<u;l++){n=m[l];for(s
in n)for(e in
this.auths)if(t=this.auths[e],s===t.name&&"oauth2"===t.type){this.model.oauth={},this.model.oauth.scopes=[],A=t
.value.scopes;for(o in
A)P=A[o],D=n[s].indexOf(o),D>=0&&(y={scope:o,description:P},this.model.oauth.scopes.push(y))}}else for(o in
m)if(P=m[o],"oauth2"===o)for(null===this.model.oauth&&(this.model.oauth={}),void
0===this.model.oauth.scopes&&(this.model.oauth.scopes=[]),d=0,c=P.length;d<c;d++)y=P[d],this.model.oauth.sco
pes.push(y);if("undefined"!=typeof
this.model.responses){this.model.responseMessages=[],S=this.model.responses;for(r in
S)q=S[r],C=null,I=this.model.responses[r].schema,I&&I.$ref&&(C=I.$ref,C.indexOf("#/definitions/")!==-
1&&(C=C.replace(/^.*#\/definitions\//,""))),this.model.responseMessages.push({code:r,message:q.description,respo
nseModel:C,headers:q.headers,schema:I})}if("undefined"==typeof
this.model.responseMessages&&(this.model.responseMessages=[]),L=null,B=this.model.produces,N=this.contains(
B,"xml"),z=!N||this.contains(B,"json"),this.model.successResponse){R=this.model.successResponse;for(s in
R)q=R[s],this.model.successCode=s,"object"==typeof q&&"function"==typeof
q.createJSONSample?(this.model.successDescription=q.description,this.model.headers=this.parseResponseHeaders(
q.headers),L={sampleJSON:!!z&&JSON.stringify(SwaggerUi.partials.signature.createJSONSample(q),void
0,2),isParam:!1,sampleXML:!!N&&SwaggerUi.partials.signature.createXMLSample(q.name,q.definition,q.models),

signature:SwaggerUi.partials.signature.getModelSignature(q.name,q.definition,q.models,q.modelPropertyMacro)}):L={signature:SwaggerUi.partials.signature.getPrimitiveSignature(q)}}else this.model.responseClassSignature&&"string"!==this.model.responseClassSignature&&(L={sampleJSON:this.model.responseSampleJSON,isParam:!1,signature:this.model.responseClassSignature});for($(this.el).html(Handlebars.templates.operation(this.model)),L?(L.defaultRendering=this.model.defaultRendering,T=new SwaggerUi.Views.SignatureView({model:L,router:this.router,tagName:"div"}),$(".model-signature",$(this.el)).append(T.render().el)):(this.model.responseClassSignature="string",$(".model-signature",$(this.el)).html(this.model.type)),i={isParam:!1},i.consumes=this.model.consumes,i.produces=this.model.produces,j=this.model.parameters,g=0,p=j.length;g<p;g++)b=j[g],U=b.type||b.dataType||"","undefined"==typeof U&&(C=b.schema,C&&C.$ref&&(x=C.$ref,U=0===x.indexOf("#/definitions/")?x.substring("#/definitions/".length):x)),U&&"file"===U.toLowerCase()&&(i.consumes||(i.consumes="multipart/form-data")),b.type=U;for(k=new SwaggerUi.Views.ResponseContentTypeView({model:i,router:this.router}),$(".response-content-type",$(this.el)).append(k.render().el),E=this.model.parameters,v=0,h=E.length;v<h;v++)b=E[v],this.addParameter(b,i.consumes);for(O=this.model.responseMessages,w=0,f=O.length;w<f;w++)M=O[w],M.isXML=N,M.isJSON=z,_.isUndefined(M.headers)||(M.headers=this.parseHeadersType(M.headers)),this.addStatusCode(M);if(Array.isArray(this.model.security)){var F=SwaggerUi.utils.parseSecurityDefinitions(this.model.security);F.isLogout=!_.isEmpty(window.swaggerUi.api.clientAuthorizations.authz),this.authView=new SwaggerUi.Views.AuthButtonView({data:F,router:this.router,isOperation:!0,model:{scopes:F.scopes}}),this.$(".authorize-wrapper").append(this.authView.render().el)}return this.showSnippet(),this},parseHeadersType:function(e){var t={string:{"date-time":"dateTime",date:"date"}};return _.forEach(e,function(e){var n;e=e||{},n=t[e.type]&&t[e.type][e.format],_.isUndefined(n)||(e.type=n)}),e},contains:function(e,t){return e.filter(function(e){if(e.indexOf(t)>-1)return!0}).length},parseResponseHeaders:function(e){var t="",n=_.clone(e);return _.forEach(n,function(e){var n=[];_.forEach(e,function(e,t){var r=["type","description"];r.indexOf(t.toLowerCase())===-1&&n.push(t+": "+e)}),n.join(t),e.other=n}),n},addParameter:function(e,t){e.consumes=t,e.defaultRendering=this.model.defaultRendering,e.schema&&($.extend(!0,e.schema,this.model.definitions[e.type]),e.schema.definitions=this.model.definitions,e.schema.type||(e.schema.type="object"),e.schema.title||(e.schema.title=" "));var n=new SwaggerUi.Views.ParameterView({model:e,tagName:"tr",readOnly:this.model.isReadOnly,swaggerOptions:this.options.swaggerOptions});$(".operation-params",$(this.el)).append(n.render().el)},addStatusCode:function(e){e.defaultRendering=this.model.defaultRendering;var t=new SwaggerUi.Views.StatusCodeView({model:e,tagName:"tr",router:this.router});$(".operation-status",$(this.el)).append(t.render().el)},submitOperation:function(e){var t,n,r,i,a;if(null!==e&&e.preventDefault(),n=$(".sandbox",$(this.el)),t=!0,n.find("input.required").each(function(){$(this).removeClass("error"),""===jQuery.trim($(this).val())&&($(this).addClass("error"),$(this).wiggle({callback:function(e){return function(){$(e).focus()}(this)}),t=!1)}),n.find("textarea.required:visible").each(function(){$(this).removeClass("error"),""===jQuery.trim($(this).val())&&($(this).addClass("error"),$(this).wiggle({callback:function(e){return function(){return $(e).focus()}(this)}),t=!1)}),n.find("select.required").each(function(){$(this).removeClass("error"),this.selectedIndex===-1&&($(this).addClass("error"),$(this).wiggle({callback:function(e){return function(){$(e).focus()}(this)}),t=!1)}),t){if(i=this.getInputMap(n),r=this.isFileUpload(n),a={parent:this},this.options.swaggerOptions)for(var o in this.options.swaggerOptions)a[o]=this.options.swaggerOptions[o];var s;for(s=0;s<this.model.parameters.length;s++){var l=this.model.parameters[s];if(l.jsonEditor&&l.jsonEditor.isEnabled()){var u=l.jsonEditor.getValue();i[l.name]=JSON.stringify(u)}}return a.responseContentType=$("div

select[name=responseContentType]",$(this.el)).val(),a.requestContentType=$("div select[name=parameterContentType]",$(this.el)).val(),$(".response_throbber",$(this.el)).show(),r?($(".request_url",$(this.el)).html("<pre></pre>"),$(".request_url pre",$(this.el)).text(this.invocationUrl),a.useJQuery=!0,i.parameterContentType="multipart/form-data",this.map=i,this.model.execute(i,a,this.showCompleteStatus,this.showErrorStatus,this)):(this.map=i,this.model.execute(i,a,this.showCompleteStatus,this.showErrorStatus,this))}},getInputMap:function(e){var t,n,r,i,a,o,s,l,u,c,p,h;for(t={},n=e.find("input"),r=0,i=n.length;r<i;r++)a=n[r],null!==a.value&&jQuery.trim(a.value).length>0&&(t[a.name]=a.value),"file"===a.type&&(t[a.name]=a.files[0]);for(o=e.find("textarea"),s=0,l=o.length;s<l;s++)a=o[s],u=this.getTextAreaValue(a),null!==u&&jQuery.trim(u).length>0&&(t[a.name]=u);for(c=e.find("select"),p=0,h=c.length;p<h;p++)a=c[p],u=this.getSelectedValue(a),null!==u&&jQuery.trim(u).length>0&&(t[a.name]=u);return t},isFileUpload:function(e){var t,n,r,i,a=!1;for(t=e.find("input"),n=0,r=t.length;n<r;n++)i=t[n],"file"===i.type&&(a=!0);return a},success:function(e,t){t.showCompleteStatus(e)},wrap:function(e){var t,n,r,i,a,o,s;for(r={},n=e.getAllResponseHeaders().split("\r"),a=0,o=n.length;a<o;a++)i=n[a],t=i.match(/^([^:]*?):(.*)$/),t||(t=[]),t.shift(),void 0!==t[0]&&void 0!==t[1]&&(r[t[0].trim()]=t[1].trim());return s={},s.content={},s.content.data=e.responseText,s.headers=r,s.request={},s.request.url=this.invocationUrl,s.status=e.status,s},getSelectedValue:function(e){if(e.multiple){for(var t=[],n=0,r=e.options.length;n<r;n++){var i=e.options[n];i.selected&&t.push(i.value)}return t.length>0?t:null}return e.value},hideResponse:function(e){e&&e.preventDefault(),$(".response",$(this.el)).slideUp(),$(".response_hider",$(this.el)).fadeOut()},showResponse:function(e){var t=JSON.stringify(e,null,"\t").replace(/\n/g,"
");$(".response_body",$(this.el)).html(_.escape(t))},showErrorStatus:function(e,t){t.showStatus(e)},showCompleteStatus:function(e,t){t.showStatus(e)},formatXml:function(e){var t,n,r,i,a,o,s,l,u,c,p,h,f;for(p=/(>)(<)(\/*)/g,f=/[ ]*(.*)[ ]+\n/g,t=/(<.+>)(.+\n)/g,e=e.replace(/\r\n/g,"\n").replace(p,"$1\n$2$3").replace(f,"$1\n").replace(t,"$1\n$2"),c=0,r="",l=e.split("\n"),i=0,o="other",h={"single->single":0,"single->closing":-1,"single->opening":0,"single->other":0,"closing->single":0,"closing->closing":-1,"closing->opening":0,"closing->other":0,"opening->single":1,"opening->closing":0,"opening->opening":1,"opening->other":1,"other->single":0,"other->closing":-1,"other->opening":0,"other->other":0},n=function(e){var t,n,a,s,l,u,c;u={single:Boolean(e.match(/<.+\/>/)),closing:Boolean(e.match(/<\/.+>/)),opening:Boolean(e.match(/<[^!?].*>/))},l=function(){var e;e=[];for(a in u)c=u[a],c&&e.push(a);return e}()[0],l=void 0===l?"other":l,t=o+"->"+l,o=l,s="",i+=h[t],s=function(){var e,t,r;for(r=[],n=e=0,t=i;0<=t?e<t:e>t;n=0<=t?++e:--e)r.push(" ");return r}().join(""),"opening->closing"===t?r=r.substr(0,r.length-1)+e+"\n":r+=s+e+"\n"},a=0,s=l.length;a<s;a++)u=l[a],n(u);return r},showStatus:function(e){var t,n;void 0===e.content?(n=e.data,t=e.url):(n=e.content.data,t=e.request.url);var r=e.headers;"string"==typeof n&&(n=jQuery.trim(n));var i=null;r&&(i=r["Content-Type"]||r["content-type"],i&&(i=i.split(";")[0].trim())),$(".response_body",$(this.el)).removeClass("json"),$(".response_body",$(this.el)).removeClass("xml");var a,o,s=function(e){var t=document.createElement("audio");return!(!t.canPlayType||!t.canPlayType(e).replace(/no/,""))};if(n)if(r["Content-Disposition"]&&/attachment/.test(r["Content-Disposition"])||r["content-disposition"]&&/attachment/.test(r["content-disposition"])||r["Content-Description"]&&/File Transfer/.test(r["Content-Description"])||r["content-description"]&&/File Transfer/.test(r["content-description"]))if("Blob"in window){var l,u=i||"text/html",c=document.createElement("a");if("[object Blob]"==={}.toString.apply(n))l=window.URL.createObjectURL(n);else{var p=[];p.push(n),l=window.URL.createObjectURL(new Blob(p,{type:u}))}var h=e.url.substr(e.url.lastIndexOf("/")+1),f=[u,h,l].join(":"),d=r["content-disposition"]||r["Content-Disposition"];if("undefined"!=typeof d){var m=/filename=([^;]*);?/.exec(d);null!==m&&m.length>1&&(f=m[1])}c.setAttribute("href",l),c.setAttribute("download",f),c.innerText="Download "+h,a=$("<div/>").append(c)}else a=$('<pre class="json" />').append("Download

headers detected but your browser does not support downloading binary via XHR (Blob).");else if("application/json"===i||/\+json$/.test(i)){var g=null;try{g=JSON.stringify(JSON.parse(n),null," ")}catch(y){g="can't parse JSON. Raw result:\n\n"+n}o=$("<code />").text(g),a=$('<pre class="json" />').append(o)}else if("application/xml"===i||/\+xml$/.test(i))o=$("<code />").text(this.formatXml(n)),a=$('<pre class="xml" />').append(o);else if("text/html"===i)o=$("<code />").html(_.escape(n)),a=$('<pre class="xml" />').append(o);else if(/text\/plain/.test(i))o=$("<code />").text(n),a=$('<pre class="plain" />').append(o);else if(/^image\//.test(i)){var v=window.URL||window.webkitURL,b=v.createObjectURL(n);a=$("<img>").attr("src",b)}else/^audio\//.test(i)&&s(i)?a=$("<audio controls>").append($("<source>").attr("src",t).attr("type",i)):r.location||r.Location?window.location=e.url:(o=$("<code />").text(n),a=$('<pre class="json" />').append(o));else o=$("<code />").text("no content"),a=$('<pre class="json" />').append(o);var w=a;$(".request_url",$(this.el)).html("<pre></pre>"),$(".request_url pre",$(this.el)).text(t),$(".response_code",$(this.el)).html("<pre>"+e.status+"</pre>"),$(".response_body",$(this.el)).html(w),$(".response_headers",$(this.el)).html("<pre>"+_.escape(JSON.stringify(e.headers,null," ")).replace(/\n/g,"
")+"</pre>"),$(".response",$(this.el)).slideDown(),$(".response_hider",$(this.el)).show(),$(".response_throbber",$(this.el)).hide();var x=this.model.asCurl(this.map,{responseContentType:i});x=x.replace("!","!"),$("div.curl",$(this.el)).html("<pre>"+_.escape(x)+"</pre>");var A=this.options.swaggerOptions;if(A.showRequestHeaders){var S=$(".sandbox",$(this.el)),j=this.getInputMap(S),E=this.model.getHeaderParams(j);delete E["Content-Type"],$(".request_headers",$(this.el)).html("<pre>"+_.escape(JSON.stringify(E,null," ")).replace(/\n/g,"
")+"</pre>")}var O=$(".response_body",$(this.el))[0];return A.highlightSizeThreshold&&"undefined"!=typeof e.data&&e.data.length>A.highlightSizeThreshold?O:hljs.highlightBlock(O)},toggleOperationContent:function(e){var t=$("#"+Docs.escapeResourceName(this.parentId+"_"+this.nickname+"_content"));t.is(":visible")?($.bbq.pushState("#/",2),e.preventDefault(),Docs.collapseOperation(t)):Docs.expandOperation(t)},getTextAreaValue:function(e){var t,n,r,i;if(null===e.value||0===jQuery.trim(e.value).length)return null;if(t=this.getParamByName(e.name),t&&t.type&&"array"===t.type.toLowerCase()){for(n=e.value.split("\n"),r=[],i=0;i<n.length;i++)null!==n[i]&&jQuery.trim(n[i]).length>0&&r.push(n[i]);return r.length>0?r:null}return e.value},showSnippet:function(){var e,t=this.$("[name=responseContentType]"),n=this.$(".operation-status .snippet_xml, .response-class .snippet_xml"),r=this.$(".operation-status .snippet_json, .response-class .snippet_json");t.length&&(e=t.val(),e.indexOf("xml")>-1?(n.show(),r.hide()):(r.show(),n.hide()))},getParamByName:function(e){var t;if(this.model.parameters)for(t=0;t<this.model.parameters.length;t++)if(this.model.parameters[t].name===e)return this.model.parameters[t];return null}}),SwaggerUi.Views.ParameterContentTypeView=Backbone.View.extend({initialize:function(){},render:function(){return this.model.parameterContentTypeId="pct"+Math.random(),$(this.el).html(Handlebars.templates.parameter_content_type(this.model)),this}}),SwaggerUi.Views.ParameterView=Backbone.View.extend({events:{"change [name=parameterContentType]":"toggleParameterSnippet"},initialize:function(){Handlebars.registerHelper("isArray",function(e,t){var n=e.type&&e.type.toLowerCase();return"array"===n||e.allowMultiple?t.fn(this):t.inverse(this)})},render:function(){var e,t,n=this.model.type||this.model.dataType,r=this.model.modelSignature.type,i=this.model.modelSignature.definitions,a=this.model.schema||{},o=this.model.consumes||[];if("undefined"==typeof n&&a.$ref){var s=a.$ref;n=0===s.indexOf("#/definitions/")?s.substring("#/definitions/".length):s}this.model.type=n,this.model.paramType=this.model["in"]||this.model.paramType,this.model.isBody="body"===this.model.paramType||"body"===th

is.model["in"],this.model.isFile=n&&"file"===n.toLowerCase(),"undefined"==typeof this.model["default"]&&(this.model["default"]=this.model.defaultValue),this.model.hasDefault="undefined"!=typeof this.model["default"],this.model.valueId="m"+this.model.name+Math.random(),this.model.allowableValues&&(this.model.isList=!0);var l=this.contains(o,"xml"),u=!l||this.contains(o,"json");e=SwaggerUi.partials.signature.createParameterJSONSample(r,i);var c=this.template();$(this.el).html(c(this.model));var p={sampleJSON:!!u&&e,sampleXML:!(!e||!l)&&SwaggerUi.partials.signature.createXMLSample("",a,i,!0),isParam:!0,signature:SwaggerUi.partials.signature.getParameterModelSignature(r,i),defaultRendering:this.model.defaultRendering};e?(t=new SwaggerUi.Views.SignatureView({model:p,tagName:"div"}),$(".model-signature",$(this.el)).append(t.render().el)):$(".model-signature",$(this.el)).html(this.model.signature);var h=!1;if(this.options.swaggerOptions.jsonEditor&&this.model.isBody&&this.model.schema){var f=$(this.el);this.model.jsonEditor=new JSONEditor($(".editor_holder",f)[0],{schema:this.model.schema,startval:this.model["default"],ajax:!0,disable_properties:!0,disable_edit_json:!0,iconlib:"swagger"}),p.jsonEditor=this.model.jsonEditor,$(".body-textarea",f).hide(),$(".editor_holder",f).show(),$(".parameter-content-type",f).change(function(e){"application/xml"===e.target.value?($(".body-textarea",f).show(),$(".editor_holder",f).hide(),this.model.jsonEditor.disable()):($(".body-textarea",f).hide(),$(".editor_holder",f).show(),this.model.jsonEditor.enable())})}this.model.isBody&&(h=!0);var d={isParam:h};if(d.consumes=this.model.consumes,h){var m=new SwaggerUi.Views.ParameterContentTypeView({model:d});$(".parameter-content-type",$(this.el)).append(m.render().el),this.toggleParameterSnippet()}else{var g=new SwaggerUi.Views.ResponseContentTypeView({model:d});$(".response-content-type",$(this.el)).append(g.render().el),this.toggleResponseSnippet()}return this},contains:function(e,t){return e.filter(function(e){if(e.indexOf(t)>-1)return!0}).length},toggleParameterSnippet:function(){var e=this.$("[name=parameterContentType]").val();this.toggleSnippet(e)},toggleResponseSnippet:function(){var e=this.$("[name=responseContentType]");e.length&&this.toggleSnippet(e.val())},toggleSnippet:function(e){e=e||"",e.indexOf("xml")>-1?(this.$(".snippet_xml").show(),this.$(".snippet_json").hide()):(this.$(".snippet_json").show(),this.$(".snippet_xml").hide())},template:function(){return this.model.isList?Handlebars.templates.param_list:this.options.readOnly?this.model.required?Handlebars.templates.param_readonly_required:Handlebars.templates.param_readonly:this.model.required?Handlebars.templates.param_required:Handlebars.templates.param}}),SwaggerUi.partials.signature=function(){function e(e){var t,i=e.name,a=e.definition,o=e.config,s=e.models,l=e.config.isParam,u=[],c=a.properties,p=a.additionalProperties,h=a.xml,f=b(h);return f&&u.push(f),c||p?(c=c||{},t=_.map(c,function(e,t){var n,i;return l&&e.readOnly?"":(n=e.xml||{},i=r(t,e,s,o),n.attribute?(u.push(i),""):i)}).join(""),p&&(t+="<!-- additional elements allowed -->"),y(i,t,u)):n()}function t(e,t){return y(e,"<!-- Infinite loop $ref:"+t+" -->")}function n(e){return e=e?": "+e:"","<!-- invalid XML"+e+" -->"}function r(r,i,s,l){var u,c,p=_.isObject(i)?i.$ref:null;l=l||{},l.modelsToIgnore=l.modelsToIgnore||[];var h=_.isString(p)?a(p,r,s,l):o(r,i,s,l);if(!h)return n();switch(h.type){case"array":u=w(h);break;case"object":u=e(h);break;case"loop":u=t(h.name,h.config.loopTo);break;default:u=A(h)}return p&&"loop"!==h.type&&(c=l.modelsToIgnore.indexOf(p),c>-1&&l.modelsToIgnore.splice(c,1)),u}function i(e,t,n,r,i){if(arguments.length<4)throw new Error;this.config=i||{},this.config.modelsToIgnore=this.config.modelsToIgnore||[],this.name=v(e,n.xml),this.definition=n,this.models=r,this.type=t}function a(e,t,n,r){var

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a=u(e),o=n[a]||{},s=o.definition&&o.definition.type?o.definition.type:"object";return
t=t||o.name,r.modelsToIgnore.indexOf(e)>-1?(s="loop",r.loopTo=a):r.modelsToIgnore.push(e),o.definition?new
i(t,s,o.definition,n,r):null}function o(e,t,n,r){var a=t.type||"object";return t?new i(e,a,t,n,r):null}function
s(e,t,n,i){var a='<?xml version="1.0"?>';return p(a+r(e,t,n,{isParam:i}))}var l=function(e){return
_.isPlainObject(e.schema)&&(e=l(e.schema)),e},u=function(e){return"undefined"==typeof
e?null:0===e.indexOf("#/definitions/")?e.substring("#/definitions/".length):e},c=function(e){if(/^Inline Model
\d+$/.test(e)&&this.inlineModels){var t=parseInt(e.substr("Inline
 Model".length).trim(),10),n=this.inlineModels[t];return n}return null},p=function(e){var
t,n,r,i,a,o,s,l,u,c,p,h,f;for(p=/(>)(<)(\/*)/g,f=/[ ]*(.*)[
]+\n/g,t=/(<.+>)(.+\n)/g,e=e.replace(p,"$1\n$2$3").replace(f,"$1\n").replace(t,"$1\n$2"),c=0,r="",l=e.split("\n"),i=0,
o="other",h={"single->single":0,"single->closing":-1,"single->opening":0,"single->other":0,"closing-
>single":0,"closing->closing":-1,"closing->opening":0,"closing->other":0,"opening->single":1,"opening-
>closing":0,"opening->opening":1,"opening->other":1,"other->single":0,"other->closing":-1,"other-
>opening":0,"other->other":0},n=function(e){var
t,n,a,s,l,u,c;u={single:Boolean(e.match(/<.+\/>/)),closing:Boolean(e.match(/<\/.+>/)),opening:Boolean(e.match(/<[^
!?].*>/))},l=function(){var e;e=[];for(a in u)c=u[a],c&&e.push(a);return e}()[0],l=void 0===l?"other":l,t=o+"-
>"+l,o=l,s="",i+=h[t],s=function(){var e,t,r;for(r=[],n=e=0,t=i;0<=t?e<t:e>t;n=0<=t?++e:--e)r.push("  ");return
r}().join(""),"opening->closing"===t?r=r.substr(0,r.length-
1)+e+"\n":r+=s+e+"\n"},a=0,s=l.length;a<s;a++)u=l[a],n(u);return
 r},h=function(e,t,n,r){function i(e,t,r){var i,a=t;return
e.$ref?(a=e.title||u(e.$ref),i=n[u(e.$ref)]):_.isUndefined(t)&&(a=e.title||"Inline Model "+
++m,i={definition:e}),r!==!0&&(f[a]=_.isUndefined(i)?{}:i.definition),a}function a(e){var t='<span
class="propType">',n=e.type||"object";return
e.$ref?t+=i(e,u(e.$ref)):"object"===n?t+=_.isUndefined(e.properties)?"object":i(e):"array"===n?(t+="Array[",_.isA
rray(e.items)?t+=_.map(e.items,i).join(","):_.isPlainObject(e.items)?t+=_.isUndefined(e.items.$ref)?_.isUndefined(e
.items.type)||_.indexOf(["array","object"],e.items.type)!==-
1?i(e.items):e.items.type:i(e.items,u(e.items.$ref)):(console.log("Array type's 'items' schema is not an array or an
object, cannot process"),t+="object"),t+="]"):t+=e.type,t+="</span>"}function o(e,t){var
n="",r=e.type||"object",i="array"===r;switch(_.isUndefined(e.description)||(t+=': <span
class="propDesc">'+e.description+"</span>"),e["enum"]&&(t+='
 = <span class="propVals">[\"+e["enum"].join("',
"')+"']</span>"),i&&(r=_.isPlainObject(e.items)&&!_.isUndefined(e.items.type)?e.items.type:"object"),_.isUndefin
ed(e["default"])||(n+=h("Default",e["default"])),r){case"string":e.minLength&&(n+=h("Min.
Length",e.minLength)),e.maxLength&&(n+=h("Max. Length",e.maxLength)),e.pattern&&(n+=h("Reg.
Exp.",e.pattern));break;case"integer":case"number":e.minimum&&(n+=h("Min.
Value",e.minimum)),e.exclusiveMinimum&&(n+=h("Exclusive Min.","true")),e.maximum&&(n+=h("Max.
Value",e.maximum)),e.exclusiveMaximum&&(n+=h("Exclusive Max.","true")),e.multipleOf&&(n+=h("Multiple
Of",e.multipleOf))}if(i&&(e.minItems&&(n+=h("Min. Items",e.minItems)),e.maxItems&&(n+=h("Max.
Items",e.maxItems)),e.uniqueItems&&(n+=h("Unique Items","true")),e.collectionFormat&&(n+=h("Coll.
Format",e.collectionFormat))),_.isUndefined(e.items)&&_.isArray(e["enum"])){var
a;a="number"===r||"integer"===r?e["enum"].join(", "):"'"+e["enum"].join("', '")+"'",n+=h("Enum",a)}return
 n.length>0&&(t='<span class="propWrap">'+t+'<table class="optionsWrapper"><tr><th
colspan="2">'+r+"</th></tr>"+n+"</table></span>"),t}function s(e,t){var
s,h=e.type||"object",f="array"===e.type,m=c+t+" "+(f?"[":"{")+p;return
t&&d.push(t),f?_.isArray(e.items)?m+="<div>"+_.map(e.items,function(e){var t=e.type||"object";return
_.isUndefined(e.$ref)?_.indexOf(["array","object"],t)>-
1?"object"===t&&_.isUndefined(e.properties)?"object":i(e):o(e,t):i(e,u(e.$ref))}).join(",</div><div>"):_.isPlainObj
ect(e.items)?m+=_.isUndefined(e.items.$ref)?_.indexOf(["array","object"],e.items.type||"object")>-
```

```
1?(_.isUndefined(e.items.type)||"object"===e.items.type)&&_.isUndefined(e.items.properties)?"<div>object</div>"
:"<div>"+i(e.items)+"</div>":"<div>"+o(e.items,e.items.type)+"</div>":"<div>"+i(e.items,u(e.items.$ref))+"</div
>":(console.log("Array type's 'items' property is not an array or an object, cannot
process"),m+="<div>object</div>"):e.$ref?m+="<div>"+i(e,t)+"</div>":"object"===h?(_.isPlainObject(e.propertie
s)&&(s=_.map(e.properties,function(t,i){var
 s,c=_.indexOf(e.required,i)>=0,p=_.cloneDeep(t),h=c?"required":"",f='<span class="propName
'+h+'">'+i+"</span> (";return
p["default"]=r(p),p=l(p),_.isUndefined(p.$ref)||(s=n[u(p.$ref)],_.isUndefined(s)||_.indexOf([void
0,"array","object"],s.definition.type)!==-1||(p=l(s.definition))),f+=a(p),c||(f+=', <span
class="propOptKey">optional</span>'),t.readOnly&&(f+=', <span class="propReadOnly">read
only</span>'),f+=")","<div"+(t.readOnly?'
class="readOnly"':"")+">"+o(p,f)}).join(",</div>")),s&&(m+=s+"</div>")):m+="<div>"+o(e,h)+"</div>",m+c+(f?
"]":"}")+p}var c='<span class="strong">',p="</span>",h=function(e,t){return'<tr><td
class="optionName">'+e+":</td><td>"+t+"</td></tr>"};if(_.isObject(arguments[0])&&(e=void
0,t=arguments[0],n=arguments[1],r=arguments[2]),n=n||{},t=l(t),_.isEmpty(t))return
c+"Empty"+p;if("string"==typeof t.$ref&&(e=u(t.$ref),t=n[e],"undefined"==typeof t))return c+e+" is not
defined!"+p;"string"!=typeof e&&(e=t.title||"Inline
 Model"),t.definition&&(t=t.definition),"function"!=typeof r&&(r=function(e){return(e||{})["default"]});for(var
f={},d=[],m=0,g=s(t,e);_.keys(f).length>0;)_.forEach(f,function(e,t){var n=_.indexOf(d,t)>-1;delete
f[t],n||(d.push(t),g+="<br />"+s(e,t))});return g},f=function(e,t,n,r){e=l(e),"function"!=typeof
r&&(r=function(e){return(e||{})["default"]}),n=n||{};var i,a,o=e.type||"object",s=e.format;return
_.isUndefined(e.example)?_.isUndefined(e.items)&&_.isArray(e["enum"])&&(a=e["enum"][0]):a=e.example,_.isU
ndefined(a)&&(e.$ref?(i=t[u(e.$ref)],_.isUndefined(i)||(_.isUndefined(n[i.name])?(n[i.name]=i,a=f(i.definition,t,n,r)
,delete n[i.name]):a="array"===i.type?[]:{})):_.isUndefined(e["default"])?"string"===o?a="date-time"===s?(new
Date).toISOString():"date"===s?(new
Date).toISOString().split("T")[0]:"string":"integer"===o?a=0:"number"===o?a=0:"boolean"===o?a=!0:"object"==
=o?(a={},_.forEach(e.properties,function(e,i){var
o=_.cloneDeep(e);o["default"]=r(e),a[i]=f(o,t,n,r)})):"array"===o&&(a=[],_.isArray(e.items)?_.forEach(e.items,fun
ction(e){a.push(f(e,t,n,r))}):_.isPlainObject(e.items)?a.push(f(e.items,t,n,r)):_.isUndefined(e.items)?a.push({}):cons
ole.log("Array
 type's 'items' property is not an array or an object, cannot process")):a=e["default"]),a},d=function(e,t){return
t=t||{},t[e.name]=e,e.examples&&_.isPlainObject(e.examples)&&e.examples["application/json"]?(e.definition.exam
ple=e.examples["application/json"],_.isString(e.definition.example)&&(e.definition.example=jsyaml.safeLoad(e.def
inition.example))):e.definition.example||(e.definition.example=e.examples),f(e.definition,e.models,t,e.modelProperty
yMacro)},m=function(e,t){var n,r;return e instanceof Array&&(r=!0,e=e[0]),"undefined"==typeof
e?(e="undefined",n=!0):t[e]?(e=t[e],n=!1):c(e)?(e=c(e),n=!1):n=!0,n?r?"Array["+e+"]":e.toString():r?"Array["+h(e.
name,e.definition,e.models,e.modelPropertyMacro)+"]":h(e.name,e.definition,e.models,e.modelPropertyMacro)},g=
function(e,t){var n,r,i;if(t=t||{},n=e instanceof
 Array,i=n?e[0]:e,t[i]?r=d(t[i]):c(i)&&(r=d(c(i))),r){if(r=n?[r]:r,"string"==typeof r)return r;if(_.isObject(r)){var
a=r;if(r instanceof Array&&r.length>0&&(a=r[0]),a.nodeName&&"Node"==typeof a){var o=(new
XMLSerializer).serializeToString(a);return p(o)}return JSON.stringify(r,null,2)}return r}},y=function(e,t,r){var
i,a;return r=r||[],a=r.map(function(e){return"
"+e.name+'="'+e.value+'"'}).join(""),e?(i=["<",e,a,">",t,"</",e,">"],i.join("")):n("Node name is not
provided")},v=function(e,t){var n=e||"";return
t=t||{},t.name&&(n=t.name),t.prefix&&(n=t.prefix+":"+n),n},b=function(e){var t="",n="xmlns";return
e=e||{},e.namespace?(t=e.namespace,e.prefix&&(n+=":"+e.prefix),{name:n,value:t}):t},w=function(e){var
t,i=e.name,a=e.config,o=e.definition,s=e.models,l=o.items,u=o.xml||{},c=b(u),p=[];return
l?(t=r(i,l,s,a),c&&p.push(c),u.wrapped&&(t=y(i,t,p)),t):n()},x=function(e){var
```

t,n;switch(e=e||{},n=e.items||{},t=e.type||""){case"object":return"Object is not a primitive";case"array":return"Array["+(n.format||n.type)+"]";default:return e.format||t}},A=function(e){var t,r=e.name,i=e.definition,a={string:{date:new Date(1).toISOString().split("T")[0],"date-time":new Date(1).toISOString(),"default":"string"},integer:{"default":1},number:{"default":1.1},"boolean":{"default":!0}},o=i.type,s=i.format,l=i.xml||{},u=b(l),c=[];return _.keys(a).indexOf(o)<0?n():(t=_.isArray(i["enum"])?i["enum"][0]:i.example||a[o][s]||a[o]["default"],l.attribute?{name:r,value:t}:(u&&c.push(u),y(r,t,c)))};return{getModelSignature:h,createJSONSample:d,getParameterModelSignature:m,createParameterJSONSample:g,createSchemaXML:r,createXMLSample:s,getPrimitiveSignature:x}}(),SwaggerUi.Views.PopupView=Backbone.View.extend({events:{"click .api-popup-cancel":"cancelClick"},template:Handlebars.templates.popup,className:"api-popup-dialog",selectors:{content:".api-popup-content",main:"#swagger-ui-container"},initialize:function(){this.$el.html(this.template(this.model))},render:function(){return this.$(this.selectors.content).append(this.model.content),$(this.selectors.main).first().append(this.el),this.showPopup(),this},showPopup:function(){this.$el.show()},cancelClick:function(){this.remove()}}),SwaggerUi.Views.ResourceView=Backbone.View.extend({initialize:function(e){e=e||{},this.router=e.router,this.auths=e.auths,""===this.model.description&&(this.model.description=null),this.model.description&&(this.model.summary=this.model.description),this.number=0},render:function(){var e={};$(this.el).html(Handlebars.templates.resource(this.model));for(var t=0;t<this.model.operationsArray.length;t++){for(var n=this.model.operationsArray[t],r=0,i=n.nickname;"undefined"!=typeof e[i];)i=i+"_"+r,r+=1;e[i]=n,n.nickname=i,n.parentId=this.model.id,n.definitions=this.model.definitions,this.addOperation(n)}return $(".toggleEndpointList",this.el).click(this.callDocs.bind(this,"toggleEndpointListForResource")),$(".collapseResource",this.el).click(this.callDocs.bind(this,"collapseOperationsForResource")),$(".expandResource",this.el).click(this.callDocs.bind(this,"expandOperationsForResource")),this},addOperation:function(e){e.number=this.number;var t=new SwaggerUi.Views.OperationView({model:e,router:this.router,tagName:"li",className:"endpoint",swaggerOptions:this.options.swaggerOptions,auths:this.auths});$(".endpoints",$(this.el)).append(t.render().el),this.number++},callDocs:function(e,t){t.preventDefault(),Docs[e](t.currentTarget.getAttribute("data-id"))}}),SwaggerUi.Views.ResponseContentTypeView=Backbone.View.extend({initialize:function(){},render:function(){return this.model.responseContentTypeId="rct"+Math.random(),$(this.el).html(Handlebars.templates.response_content_type(this.model)),this}}),SwaggerUi.Views.SignatureView=Backbone.View.extend({events:{"click a.description-link":"switchToDescription","click a.snippet-link":"switchToSnippet","mousedown .snippet_json":"jsonSnippetMouseDown","mousedown .snippet_xml":"xmlSnippetMouseDown"},initialize:function(){},render:function(){return $(this.el).html(Handlebars.templates.signature(this.model)),"model"===this.model.defaultRendering?this.switchToDescription():this.switchToSnippet(),this},switchToDescription:function(e){e&&e.preventDefault(),$(".snippet",$(this.el)).hide(),$(".description",$(this.el)).show(),$(".description-link",$(this.el)).addClass("selected"),$(".snippet-link",$(this.el)).removeClass("selected")},switchToSnippet:function(e){e&&e.preventDefault(),$(".snippet",$(this.el)).show(),$(".description",$(this.el)).hide(),$(".snippet-link",$(this.el)).addClass("selected"),$(".description-link",$(this.el)).removeClass("selected")},snippetToTextArea:function(e){var t=$("textarea",$(this.el.parentNode.parentNode.parentNode));""!==$.trim(t.val())&&t.prop("placeholder")!==t.val()||(t.val(e),this.model.jsonEditor&&this.model.jsonEditor.isEnabled()&&this.model.jsonEditor.setValue(JSON.parse(this.model.sampleJSON)))},jsonSnippetMouseDown:function(e){this.model.isParam&&(e&&e.preventDefault(),this.snippetToTextArea(this.model.sampleJSON))},xmlSnippetMouseDown:function(e){this.model.isParam&&(e&&e.preventDefault(),this.snippetToTextArea(this.model.sampleXML))}}),SwaggerUi.Views.StatusCodeView=Backbo

ne.View.extend({initialize:function(e){this.options=e||{},this.router=this.options.router},render:function(){var e,t,n=this.router.api.models[this.model.responseModel];return $(this.el).html(Handlebars.templates.status_code(this.model)),e=this.router.api.models.hasOwnProperty(this.model.responseModel)?{sampleJSON:JSON.stringify(SwaggerUi.partials.signature.createJSONSample(n),void 0,2),sampleXML:!!this.model.isXML&&SwaggerUi.partials.signature.createXMLSample("",this.model.schema,this.router.api.models),isParam:!1,signature:SwaggerUi.partials.signature.getModelSignature(this.model.responseModel,n,this.router.api.models),defaultRendering:this.model.defaultRendering}:{signature:SwaggerUi.partials.signature.getPrimitiveSignature(this.model.schema)},t=new SwaggerUi.Views.SignatureView({model:e,tagName:"div"}),$(".model-signature",this.$el).append(t.render().el),this}})}).call(this);

Found in path(s):
* /wiremock-standalone-2-5-1-sources-1-jar/assets/swagger-ui/swagger-ui.min.js
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* https://github.com/chjj/marked
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/*!

handlebars v4.0.5

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1.230 httpcomponents-core 4.4.3

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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root function must still compute square roots.)

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1.247 tomcat-el-api 8.5.32

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1.248 jackson-mapper-asl 1.0.1

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1.249 tomcat-jdbc 8.5.32

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1.250 tomcat-dbcp 8.5.32

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1.254 tomcat-tribes 8.5.32

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1.255 tcp-wrappers 7.6.24

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1.256 tomcat-catalina 8.5.32

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1.257 tomcat-coyote 8.5.32

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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/ServletRequestContext.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/modules/ModelerSource.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/ParameterInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ProgressListener.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLUtil.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItem.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/AttributeInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemHeadersSupport.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioSelectorPool.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SecureNio2Channel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioBlockingSelector.java
* /tomcat-coyote-8-5-32-sources-1-
jar/org/apache/tomcat/util/http/fileupload/util/mime/QuotedPrintableDecoder.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ParameterParser.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AbstractEndpoint.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketProperties.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/HttpParser.java
* /tomcat-coyote-8-5-32-sources-1-
jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsIntrospectionSource.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLX509Certificate.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Closeable.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Cookie.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionContext.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLKeyManager.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Authorization.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/UploadContext.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/LimitedInputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemHeaders.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseAttributeFilter.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLEngine.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLContext.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFileItemFactory.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/UserDataHelper.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/MimeUtility.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemIterator.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Streams.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/RequestUtil.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemFactory.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/ApplicationBufferHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseModelMBean.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioChannel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/Nio2Channel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseNotificationBroadcaster.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/IOUtils.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLProtocols.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/RequestContext.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/NotificationInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItem.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/RegistryMBean.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/ParseException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/ServletFileUpload.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/OperationInfo.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/MultipartStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/FileItemHeadersImpl.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLImplementation.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/Registry.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SecureNioChannel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Host.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ByteArrayOutputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ThresholdingOutputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/FeatureInfo.java
* /tomcat-coyote-8-5-32-sources-1-
jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsDigesterSource.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/DeferredFileOutputStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/package-info.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/SkipResult.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/ManagedBean.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/InvalidFileNameException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/package-info.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUtils.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUpload.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionStats.java
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*/
/**
   * Return the initialization parameters for the TrustManager.
   * Currently, only the default <code>PKIX</code>
 is supported.
   *
   * @param crlf The path to the CRL file.
   * @param trustStore The configured TrustStore.
   * @param revocationEnabled Should the JSSE provider perform revocation
   *                          checks? Ignored if {@code crlf} is non-null.
   *                          Configuration of revocation checks are expected
   *                          to be via proprietary JSSE provider methods.
   * @return The parameters including the CRLs and TrustStore.
   * @throws Exception An error occurred
   */
```

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*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/EnumElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/JavaClass.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassFormatException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Annotations.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantInteger.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ElementValuePair.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Constant.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantDouble.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationEntry.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/SimpleElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantClass.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassParser.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantFloat.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ArrayElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantPool.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11Protocol.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AsyncStateMachine.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileKeepAliveState.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AprEndpoint.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLUtil.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/Constants.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HPackHuffman.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSEKeyManager.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpNio2Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileDataBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11NioProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Exception.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Request.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/RequestGroupInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/HttpMessages.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLConfCmd.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Cipher.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/AbstractHttp11JsseProtocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/OutputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/VoidInputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HeaderSink.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/SystemLogHandler.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AprSSLSupport.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeServletInputStream.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLSessionManager.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLHostConfigCertificate.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AbstractAjpProtocol.java
* /tomcat-coyote-8-5-32-sources-1-
jar/org/apache/tomcat/util/net/openssl/ciphers/OpenSSLCipherConfigurationParser.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/BufferedInputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/VoidOutputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ElementValue.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/EncryptionLevel.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/AbstractStream.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/AbstractHttp11Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/CookieProcessor.java
*
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLConf.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketBufferHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketWrapperBase.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/ServerCookies.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HpackEncoder.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLImplementation.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeProcessorInternal.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/HttpOutputBuffer.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/ServerCookie.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsLocal.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/MessageDigest.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ContainerThreadMarker.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AsyncContextCallback.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/MimeHeaders.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/SavedRequestInputFilter.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Protocol.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Constants.java

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpAprProtocol.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Setting.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2OutputBuffer.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11InputBuffer.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ProtocolException.java
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 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2UpgradeHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/MediaType.java
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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/LocalStrings.properties
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1.260 tomcat-websocket 8.5.32

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1.261 ecj 4.5

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Found in path(s):
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/AuthStatus.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfigProvider.java
*
 /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/module/ServerAuthModule.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ServerAuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/ServerAuth.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/RegistrationListener.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ClientAuthContext.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ServerAuthContext.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/MessagePolicy.java

* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfigFactory.java
*
/tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/AuthException.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ClientAuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/SecretKeyCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/ClientAuth.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/module/ClientAuthModule.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/MessageInfo.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/TrustStoreCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/CertStoreCallback.java
*
/tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/PrivateKeyCallback.java

1.268 tomcat-i18n-ja 8.5.32

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1.269 snowball 1.2.0

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1.270 tomcat-websocket-api 8.5.32

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1.272 tomcat-i18n-fr 8.5.32

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1.277 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex
and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,

better suited to large grammars, and which has a number of nice
properties when dealing with syntax errors and other parsing problems.
Currently, PLY builds its parsing tables using the LALR(1)
algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
This greatly simplifies the task of parser construction since it reduces
the number of files and eliminates the need to run a separate lex/yacc
tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
Although it is not ultra-fast due to its Python implementation,
PLY can be used to parse grammars consisting of several hundred
rules (as might be found for a language like C). The lexer and LR
parser are also reasonably efficient when parsing typically
sized programs. People have used PLY to build parsers for
C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============

PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

   http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

   https://github.com/dabeaz/ply

An old and
relatively inactive discussion group for PLY is found at:

   http://groups.google.com/group/ply-hack

Acknowledgments
===============
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation

of a calculator
with variables.

```
# ------------------------------------------------------------------------------
# calc.py
#
# A simple calculator with variables.
# ------------------------------------------------------------------------------

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
t_EQUALS  = r'='
t_LPAREN  = r'\('
t_RPAREN  = r'\)'
t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
```

```
rules for the arithmetic operators
  precedence = (
     ('left','PLUS','MINUS'),
     ('left','TIMES','DIVIDE'),
     ('right','UMINUS'),
     )

  # dictionary of names (for storing variables)
  names = { }

  def p_statement_assign(p):
     'statement : NAME EQUALS expression'
     names[p[1]] = p[3]

  def p_statement_expr(p):
     'statement : expression'
     print(p[1])

  def p_expression_binop(p):
     '''expression : expression PLUS expression
                   | expression MINUS expression
                   | expression TIMES expression
                   | expression DIVIDE expression'''
     if p[2] == '+'  : p[0] = p[1] + p[3]
     elif p[2] == '-': p[0] = p[1] - p[3]
     elif p[2] == '*': p[0] = p[1] * p[3]
     elif p[2] == '/': p[0] = p[1] / p[3]

  def p_expression_uminus(p):
     'expression : MINUS expression %prec UMINUS'
     p[0] = -p[2]

  def p_expression_group(p):
     'expression : LPAREN
expression RPAREN'
     p[0] = p[2]

  def p_expression_number(p):
     'expression : NUMBER'
     p[0] = p[1]

  def p_expression_name(p):
     'expression : NAME'
     try:
        p[0] = names[p[1]]
     except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0
```

```
  def p_error(p):
      print("Syntax error at '%s'" % p.value)

  import ply.yacc as yacc
  yacc.yacc()

  while True:
      try:
          s = raw_input('calc > ')   # use input() on Python 3
      except EOFError:
          break
      yacc.parse(s)
```

Bug Reports and Patches
==========
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY
github page
 at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

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1.278 pyopenssl 17.5.0

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1.279 pytz 2018.3

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1.281 python-certifi 2018.1.18

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.283 setuptools-scm 1.15.5

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1.284 sphinxcontrib-websupport 1.0.1

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1.285 godspeed-rpc 1.0.0-000

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1.286 pystemmer 1.3.0

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1.287 typing 3.6.4

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==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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1.288 pytest-runner 2.11.1

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1.291 rfc3986 1.3.2

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1.295 go-toml 1.9.0

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1.298 avahi 0.6

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1.299 json-smart 2.2.1

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* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/JSONParserByteArray.java
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* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/JSONParserBase.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/DefaultMapperCollection.java
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* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONUtil.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONAware.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JStylerObj.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONAwareEx.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/BeansMapper.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONStyle.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONObject.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONValue.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/FakeMapper.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/JsonReader.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONArray.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
*
 /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/JSONParserInputStream.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/CollectionMapper.java

* /json-smart-2-2-1-sources-6-jar/net/minidev/json/JSONStreamAwareEx.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/JSONParser.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/ParseException.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/JSONParserStream.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/JsonReaderI.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/CompessorMapper.java
* /json-smart-2-2-1-sources-6-jar/net/minidev/json/parser/JSONParserString.java
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* /json-smart-2-2-1-sources-6-jar/net/minidev/json/writer/DefaultMapper.java

1.300 tevent 0.10.2

1.300.1 Available under license :

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1.301 talloc 2.3.1

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1.302 libcxx 6.0.0

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1.303 nginx 1.12.1

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1.304 coverage 3.6

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```
/**
* QUnit - A JavaScript Unit Testing Framework
*
* http://docs.jquery.com/QUnit
*
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*/
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* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
* Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
* @author Ariel Flesler
* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
*/
/*
* Javascript Diff Algorithm
*  By John Resig (http://ejohn.org/)
*  Modified by Chu Alan "sprite"
*
* Released under the MIT license.
*
* More Info:
*  http://ejohn.org/projects/javascript-diff-algorithm/
*
* Usage: QUnit.diff(expected, actual)
*
```

* QUnit.diff("the quick brown
 fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox <del>jumped
</del><ins>jumps </ins> over"
*/

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1.305 libdwarf 20161124

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^L
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*/

/* dsc_type: if 0, then dsc_low is a single discriminant value
  and dsc_high is zero..
  If 1, then dsc_low, dsc_high are a discriminant range

  All the messy complexity here is so we can have both
  a set of values read as uleb and as sleb.
  We make our own copy of the block for the same reason.
*/

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1.306 cython 0.15.1

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1.308 pep517 0.5.0

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1.309 pcre 10.21

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Written by: Philip Hazel
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1.311 dom 1.0

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*/
/**
   * used to check the 3 constraints against each complex type
   * (should be each model group):
   * Unique Particle
 Attribution, Particle Derivation (Restriction),
   * Element Declrations Consistent.
   */

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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
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*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    *
 then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by means of its <code>parse</code>
    * method.
    * @param mode The <code>mode</code> argument is either
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous

```
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema
 found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
     *    error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
    *   reference to the default error handler.
    * @exception DOMException
    *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
    *   not supported.
  */
```

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1.312 jackson-annotations 2.11.1

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1.313 stateless4j 2.5.0

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1.314 jackson-dataformat-yaml 2.11.2

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* /jopt-simple-4-9-sources-jar/joptsimple/OptionParser.java
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* /jopt-simple-4-9-sources-jar/joptsimple/util/DateConverter.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/Objects.java
* /jopt-simple-4-9-sources-jar/joptsimple/AlternativeLongOptionSpec.java

* /jopt-simple-4-9-sources-jar/joptsimple/OptionDescriptor.java
* /jopt-simple-4-9-sources-jar/joptsimple/OptionException.java
* /jopt-simple-4-9-sources-jar/joptsimple/IllegalOptionSpecificationException.java
* /jopt-simple-4-9-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
* /jopt-simple-4-9-sources-jar/joptsimple/NonOptionArgumentSpec.java
* /jopt-simple-4-9-sources-jar/joptsimple/OptionSpec.java
*
 /jopt-simple-4-9-sources-jar/joptsimple/MissingRequiredOptionsException.java
* /jopt-simple-4-9-sources-jar/joptsimple/BuiltinHelpFormatter.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/AbbreviationMap.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/Rows.java
* /jopt-simple-4-9-sources-jar/joptsimple/util/InetAddressConverter.java
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* /jopt-simple-4-9-sources-jar/joptsimple/internal/Messages.java
* /jopt-simple-4-9-sources-jar/joptsimple/util/KeyValuePair.java
* /jopt-simple-4-9-sources-jar/joptsimple/NoArgumentOptionSpec.java
* /jopt-simple-4-9-sources-jar/joptsimple/util/RegexMatcher.java
* /jopt-simple-4-9-sources-jar/joptsimple/OptionSpecTokenizer.java
* /jopt-simple-4-9-sources-jar/joptsimple/ValueConverter.java
* /jopt-simple-4-9-sources-jar/joptsimple/AbstractOptionSpec.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/ReflectionException.java
*
 /jopt-simple-4-9-sources-jar/joptsimple/ArgumentList.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/Columns.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/Row.java
* /jopt-simple-4-9-sources-jar/joptsimple/ParserRules.java
* /jopt-simple-4-9-sources-jar/joptsimple/RequiredArgumentOptionSpec.java
* /jopt-simple-4-9-sources-jar/joptsimple/UnconfiguredOptionException.java
* /jopt-simple-4-9-sources-jar/joptsimple/ValueConversionException.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /jopt-simple-4-9-sources-jar/joptsimple/OptionalArgumentOptionSpec.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/Reflection.java
* /jopt-simple-4-9-sources-jar/joptsimple/OptionParserState.java
* /jopt-simple-4-9-sources-jar/joptsimple/OptionSpecBuilder.java
* /jopt-simple-4-9-sources-jar/joptsimple/HelpFormatter.java
* /jopt-simple-4-9-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
*
 /jopt-simple-4-9-sources-jar/joptsimple/OptionArgumentConversionException.java
* /jopt-simple-4-9-sources-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /jopt-simple-4-9-sources-jar/joptsimple/ArgumentAcceptingOptionSpec.java

1.318 lasso 2.4.1

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[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

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NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

1.321 elfutils 0.170-1

1.321.1 Available under license :

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1.322 hiredis 0.13

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1.323 libedit 3.1-20170329-1

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1.324 cjson 1.7.5

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1.325 readline 7.0.3-1

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1.326 golang 1.15.10

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* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/Ordering.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/DefaultsDescriptor.java
*
/jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/WebAppClassLoader.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/MetaInfConfiguration.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/AbstractConfiguration.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/WebAppContext.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/ClasspathPattern.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/FragmentConfiguration.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/package-info.java
* /jetty-webapp-9-2-13-v20150730-sources-jar/org/eclipse/jetty/webapp/DiscoveredAnnotation.java
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1.329 jetty-security 9.2.13.v20150730

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* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/LoginCallback.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/UserAuthentication.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/HashLoginService.java
*
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jar/org/eclipse/jetty/security/authentication/ClientCertAuthenticator.java
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* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/SpnegoAuthenticator.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/package-info.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/Authenticator.java
*
 /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/DefaultIdentityService.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/LoginAuthenticator.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/PropertyUserStore.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/CrossContextPsuedoSession.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/JDBCLoginService.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/SpnegoUserPrincipal.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/SpnegoUserIdentity.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/LoginService.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/SecurityHandler.java

* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/ConstraintMapping.java
*
 /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/LoginCallbackImpl.java
* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/authentication/DigestAuthenticator.java
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* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/RunAsToken.java
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* /jetty-security-9-2-13-v20150730-sources-jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
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//Equivalent to //<user-data-constraint><transport-guarantee>CONFIDENTIAL</transport-guarantee></user-data-constraint>

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1.330 jetty-util 9.2.13.v20150730

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

*/

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/**
* Utf8 Appendable abstract base class
*
* This abstract class wraps a standard {@link java.lang.Appendable} and provides methods to append UTF-8
encoded bytes, that are converted into characters.
*
* This class is stateful and up to 4 calls to {@link #append(byte)} may be needed before state a character is
appended to the string buffer.
*
* The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
inspired by
* http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
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/*
* @(#)UnixCrypt.java 0.9 96/11/25
*
```

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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/HostMap.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/ShutdownThread.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Scanner.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ArrayTrie.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/URLResource.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/IPAddressMap.java
*
/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/EmptyResource.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/BlockingCallback.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/Log.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ConcurrentArrayQueue.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/UrlEncoded.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/Container.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/BufferUtil.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/security/Credential.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/Logger.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/package-info.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/MemoryUtils.java
*
/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/LazyList.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/MultiPartInputStreamParser.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/IteratingNestedCallback.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/JarFileResource.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Loader.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/CompletableCallback.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/ContainerLifeCycle.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/AbstractLifeCycle.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/BadResource.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/Resource.java
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/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/ResourceFactory.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/JavaUtilLog.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/security/CertificateValidator.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ClassLoadingObjectInputStream.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/package-info.java
*
/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/LeakDetector.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/AbstractLogger.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ssl/AliasedX509KeyManager.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Trie.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/Slf4jLog.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/AttributesMap.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/security/Password.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/log/JettyAwareLogger.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/IntrospectionUtil.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/TypeUtil.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/MultiMap.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/FileNoticeLifeCycleListener.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ByteArrayISO8859Writer.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/DateCache.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/package-info.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/LifeCycle.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Jetty.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Utf8StringBuffer.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/annotation/package-info.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/PathResource.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Uptime.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/Graceful.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ByteArrayOutputStream2.java
*
 /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/ExecutorThreadPool.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/Promise.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/GCThreadLeakPreventer.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/LoginConfigurationLeakPreventer.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/AbstractTrie.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/statistic/SampleStatistic.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/component/Destroyable.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/ConcurrentHashSet.java

* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/annotation/ManagedObject.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/SocketAddressResolver.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/ScheduledExecutorScheduler.java
*
/jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/HttpCookieStore.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/resource/ResourceCollection.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/StringUtil.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/LDAPLeakPreventer.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/thread/Sweeper.java
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* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/package-info.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/preventers/Java2DLeakPreventer.java
* /jetty-util-9-2-13-v20150730-sources-jar/org/eclipse/jetty/util/B64Code.java

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* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/gzip/package-info.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/ConcatServlet.java

* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/gzip/CompressedResponseWrapper.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/gzip/GzipHandler.java
*
/jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/WelcomeFilter.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/GzipFilter.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/EventSourceServlet.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/gzip/AbstractCompressedStream.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/PutFilter.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/EventSource.java
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* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/gzip/GzipOutputStream.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/CloseableDoSFilter.java
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* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/QoSFilter.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/gzip/GzipHttpOutput.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/package-info.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/DoSFilter.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/CGI.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/gzip/DeflatedOutputStream.java
* /jetty-servlets-9-2-13-v20150730-sources-jar/org/eclipse/jetty/servlets/IncludableGzipFilter.java

1.332 jetty-xml 9.2.13.v20150730

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* /jetty-xml-9-2-13-v20150730-sources-jar/org/eclipse/jetty/xml/ConfigurationProcessorFactory.java
* /jetty-xml-9-2-13-v20150730-sources-jar/org/eclipse/jetty/xml/XmlConfiguration.java
* /jetty-xml-9-2-13-v20150730-sources-jar/org/eclipse/jetty/xml/XmlParser.java
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1.333 heimdall 1.0.0-000

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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lib/hcrypto/test_dh.c

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1.337 openssl 1.0.2zd

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1.338 pycrypto 2.0.1

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1.339 fpconst 0.7.2

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* /fpconst-zip/fpconst/build/lib/fpconst.py
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---

fpconst: A Python module for handling IEEE 754 floating point special
values

Author: Gregory R. Warnes <Gregory.R.Warnes@Pfizer.com>
Date: 2005-02-24
Version: 0.7.2

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---

This module provides 'fpconst' a reference implementation of Python
Enhancement Protocol (PEP) 754, "IEEE 754 Floating Point Special
Values". See the file pep-0754.txt or
http://www.python.org/peps/pep-0754.html for the text of PEP 754.

INSTALLATION

This is a standard Python source package. Consequently, simply unpack
the source distribution, change into the diretory, and run

$ Python setup.py install

DOCUMENTATION

See the text of PEP
754 at http://www.python.org/peps/pep-0754.html
or the contents of the file pep-0754.txt

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Metadata-Version: 1.0
Name: fpconst
Version: 0.7.2
Summary: Utilities for handling IEEE 754 floating point special values
Home-page: http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/
Author: Gregory Warnes
Author-email: Gregory.R.Warnes@Pfizer.com
License: UNKNOWN
Description: Utilities for handling IEEE 754 floating point special values

This python module implements constants and functions for working with
IEEE754 double-precision special values. It provides constants for
Not-a-Number (NaN), Positive Infinity (PosInf), and Negative Infinity
(NegInf), as well as functions to test for these values.

The code is implemented in pure python by taking advantage of the

'struct' standard module. Care has been taken to generate proper
results on both big-endian and little-endian machines. Some efficiency
could be gained by translating
the core routines into C.

See <http://babbage.cs.qc.edu/courses/cs341/IEEE-754references.html>
for reference material on the IEEE 754 floating point standard.

Further information on this package is available at
<http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/>.

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-------------------------------------------------------------------
"""



from distutils.core import setup

url="http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/"

import
 fpconst

setup(name="fpconst",
      version=fpconst.__version__,
      description="Utilities for handling IEEE 754 floating point special values",
      author="Gregory Warnes",
      author_email="Gregory.R.Warnes@Pfizer.com",
      url = url,
      long_description=fpconst.__doc__,
      py_modules=['fpconst']
     )

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1.340 pyrex 0.9.5.1a

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=pG@G@~(\G@XJ@G@Xtr(hURrG@G@(\G@~zGG@~JG@~tr(hURrG@~)\(G@~PG@}\)G@~J_G@~tr(hUR
rG@}G@}G@}#
=pG@}2\(JmG@}2\(tr(hURrG@}AG@}G@}4(\G@}wzHJ4QG@}wzHtr(hURrG@}QG@}G@}LzGG@}`(\J>G
@}`(\tr(hURrG@}@G@}G@}fffffG@}pzGJ4>G@}pzGtr(hU RrG@}zfffffG@}G{G@|G@|=p
J"JG@|=p
tr(hURrG@|G{G@|=p
G@|pQG@|
=qJWG@|
=qtr(hU
RrG@|fffffG@|zGG@|(\G@|J=G@|tr(hURrG@|G@}RzGG@|QG@}G{JVG@}G{tr(hURrG@}
G@}"zGG@|QG@|QJ=G@|Qtr(hURrG@|G@}bfffffG@|\)G@}_
=pJ@^G@}_
=ptr(hURrG@}GQG@}G@}\(G@}J>G@}tr(hURrG@}]p
=G@}G{G@};
=pG@}\(JVG@}\(tr (hURr
G@}
=pG@~C
=pG@}=p
G@}JWG@}tr(hURrG@}G@}33333G@}<G@}iRJh>;G@}iRtr
(hURrG@}GzG@}G@|G@}G{Jl<G@}G{tr(hURrG@|pG@|G@{QG@|QJ G@|Qtr(hURrG@|&\(G@|ZQG@{
=qG@|33333J,zG@|33333tr(hURrG@{QG@|FQG@{G@|zHJG@|zHtr(hURrG@{\(G@|33333G@{jG{G@{jG{J
0udG@{jG{tr(hURrG@{PQG@{G@{PG@{33333J`G@{33333tr(hURrG@{QG@|G@{zGG@|JrG@|tr(hURrG@
|
=pG@|=p
G@|d
=qG@|z=p
JcG@|z=p

tr(hURrG@|QG@}G@|aG@|kQJpQG@|kQtr(hU Rr
G@|G@|fffffG@|!G@|O\(J$KG@|O\(tr!(hURr"G@|IQG@|tG@|1\(G@|lJ4G@|ltr#(hU
Rr$G@|!\(G@|>G{G@{GzG@{zGJTOaG@{zGtr%(hURr&G@{zHG@|
\(G@{pG@|JTzG@|tr'(hURr(G@{\(G@|QG@{
=pG@{
=pJ/<G@{
=ptr)(hURr*G@{fffffG@{33333G@{~=p
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=qtr3(hURr4G@|33333G@|=p
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=G@|RJ9G@|Rtr9(hURr:G@|RG@}
=pG@|fffffG@|zGJFG@|zGtr;(hURr<G@}G@} G@|pG@|QJ<G@|Qtr=(hURr>G@|G@|fffffG@|=p
G@|\(J3G@|\(tr?(hURr@G@|(\G@|zGG@|ARG@|zGJ4G@|zGtrA(hURrBG@}G@}G@}G@}J5cG@}trC(hURr
DG@}=p
G@}G@}YGzG@}pQJ9G@}pQtrE(hURrFG@}tG@}p
=G@}YRG@}x(\Jp)G@}x(\trG(hU RrHG@}zHG@}G@}p
=G@}C\(JT.G@}C\(trI(hU
RrJG@}1p
=G@}l
=qG@}\(G@}(Ju-G@}(trK(hURrLG@} \)G@}VfffffG@|\(G@}zGJ*:G@}zGtrM(hURrNG@}G@}@G@|
=pG@}6=p
JQ)G@}6=p
trO(hU
RrPG@}G33333G@}LQG@|\(G@}$
=qJ0*G@}$
=qtrQ(hURrRG@}G\(G@}
=pG@}BfffffG@}QJ{MG@}QtrS(hURrTG@}G@}=p
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=G@}zfffffJ@G@}zffffftrY(hURrZG@~QG@~G@~
QG@~'zHJG@~'zHtr[(hURr\G@~G@~PG@}(\G@}GzJhVG@}Gztr](hURr^G@}\(G@}zHG@}G@}zGJl`8G@
}zGtr_(hURr`G@~G@~RG@}\(G@}
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URrfG@}fffffG@~G@}vzGG@}vzGJp7G@}vzGtrg(hURrhG@}
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@}
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G@}QG@}'QG@}4QJD.G@}4Qtrq(hURrrG@}"zGG@}BQG@}zHG@},\)JT,G@},\)trs(hU
RrtG@}"fffffG@}{zHG@|zGG@}TJZ;G@}Ttru(hU
RrvG@}0
=qG@}W
=pG@|QG@|QJ?8G@|Qtrw(hURrxG@|GzG@}0G@|G@}+
=pJd,G@}+
=ptry(hURrzG@}zHG@}8(\G@|G@|zGJ;G@|zGtr{(hURr|G@|\(G@|
=qG@|\(G@|J>G@|tr}(hURr~G@|G@}=p

G@|QG@}\(JXdG@}\(tr(hURrG@}\(G@}QG@}l\)G@}o\(JxGG@}o\(tr(hURrG@}zGG@}33333G@}\G@}eQJ
e8G@}eQtr(hURrG@}XzGG@}33333G@}+QG@}iJ]G@}itr(hURrG@}G@}(\G@}G@}\(J:G@}\(tr(hURrG@~
QG@~6\(G@}G@}QJh6MG@}Qtr(hURrG@}fffffG@}33333G@}xG@}GzJ
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tr(hURrG@~HG@-p
=G@~0G@)JnG@)tr(hURrG@H\)G@zGG@\)G@\(J,G@\(tr(hURrG@PG@QG@G{G@FfffffJ:IG@Ffffffr(hUR
rG@\(G@(\G@p
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RrG@p
=G@
=qG@+
=pG@
=pJTkG@
=ptr(hURrG@zGG@zGG@[33333G@mp
=JFG@mp
=tr(hURrG@
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J5^G@=p
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G@'
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=pG@QG@.zGG@JHiG@tr(hURrG@zGG@$\)G@G@=p
JTG@=p
tr(hURrG@\(G@:QG@G@
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=pG@
=qG@ (\JlAG@ (\tr(hURrG@:QG@n=p
G@(QG@n=p
J>G@n=p
tr(hU RrG@FffffG@v\(G@
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scene.ico | Crystal
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window.png | Eclipse
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G@<QG@<QJ`*G@ zGtq(hURqG@<QG@=@G@<G@<QJ
~G@
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tr# (hURr$ G@A@G@AG@A G@AJ`AG@ =p
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=qG@A@G@BJPnUG@ 33333tr' (hURr(G@BG@BG@BG@B
=qJ@G@!W
=ptr) (hU
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=qtrs(hURrtG@D

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G@
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G@(aGztr"(hURr"G@8p
=G@9

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=pJ G@$tr##(hU
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JG@#=p
tr%#(hURr&#G@3=p
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JG@$=p
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=G@.
=p
J`G@
=p
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Rr#G@,B\(G@,zGG@,G@,W
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=pG@.\(G@-#
=pG@-J`=G@tr#(hU Rr#G@-aGzG@..zGG@-
=p
G@.
=p
JpG@
=p
tr#(hU Rr#G@-G@-G@,\(G@-(\)J@;pG@(\)tr#(hU Rr#G@-=p
=G@-GzG@-
=p
G@-p
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=p
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Rr#G@,\)G@-B\(G@,333333G@,W
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Rr$$G@.GzHG@.LG@-LG@-zGJHYG@\(tr%$(hURr&$G@-QG@.333333G@-8QG@-
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=pJ8
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=pG@,333333G@,ffffffJbG@ffffffftr-$(hURr.$G@,zGG@-
QG@+\(G@,GzHJXYG@GzHtr/$(hURr0$G@,QRG@-G@,=p
=G@,G{JDG@\(tr1$(hURr2$G@,GzG@,
=qG@,G@,QJHpG@Qtr3$(hURr4$G@,
=pG@-QG@,\(G@,J0.G@tr5$(hURr6$G@,QG@,\(G@,QG@,QJ+G@Qtr7$(hURr8$G@,(\)G@,LG@+zGG@,#
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J`G@
=p
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G@+LG@,B\(JLG@GzHtr]$(hURr^$G@,zG{G@-aGzG@,QRG@-(\)J(G@(\)tr_$(hURr`$G@-
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G@-333333G@,=p
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G@U
=p

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G@^=p
JG@^=p
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=pG@^\(G@]
=qG@^x\)J*G@^x\)tr
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=pG@^\(G@^G@^#
=pJG@^#
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Icon original authors and license

  GV: Gael Varoquaux: BSD-licensed

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W<@hAR&AQ^<@\(<@GzT<@\(\<@dAR&A)\h<@33333<@RQ<@fffff<@AR&A(\<@33333<@Qx<@<@AR
&A=
p}<@(\=@Qk<@=@pU
AR&A(\=@Q=@Q=@(\=@pAR&Ap=
c=@>@(\<@R=@(UAR&AQ=@(\=@zG<@=@AR&A\(=@33333=@%Ck<@(\u<@AR&AQx<@1<@Q8<@=
p=<@0AR&AQE<@Hz<@p=
#<@q=
0<@peAR&A)\h<@)\<@<@Gz<@@AR&Ap=
<@\(<@;@;@;AR&AHz<@zG<@(\;@Q<@9AR&A33333s<@<@q=
0<@<@@NAR&A)\(=@(\u=@Gz<@Gz=@(SAR&Affffff&=@L=@)\<@q=
0=@8Z=AR&A(\=@Zd;_=@Q<@p=
#=@`]AR&A\(\=@\(\=@Gz<@R<@HqiAR&AQ8=@}bY=@<@q=
<@@MAR&A)\<@333333=@Q<@)\<@BAR&A{G<@=@<@Hz<@HAR&A)\<@Q<@{Gz<@Gz<@xAR&A3
33333=@(\B=@33333<@R=@AR&A)\<@(\O=@<@{G:=@h'AR&AHzG=@
p=J=@<@Gz<@/bAR&A33333<@Q^=@<@Y=@+AR&AY=@Gzn=@Q+=@|?5^Z=@(AR&AHz=@(\5=@<@
p=
<@cKAR&AQ<@Gz=@33333<@)\<@AR&AQE;@ffffff;@Qk:@\(:@b$AR&A)\:@;@R:@)\:@LAR&Ap=
;@Q8;@zG:@333333;@Z3AR&A)\(;@@;@)\:@=
p:@AR&A(\;@
p=
;@)\9@Q:@$AR&AQ^:@q=
p:@\(:@p=
#:@@AS&AY:@:@
p=J:@Gz:@xAS&Ap=
:@Q:@(\:@R:@" AS&Affffff&:@RQ:@:@:@x[A
S&A(\B:@L:@:@{G::@,DAS&AzGa:@=
p}:@Hz:@:@h=AS&AQ:@{G::@:@K7A:@AS&A(\:@~jt:@Q9@9@AS&A9@p=
#:@9@{G9@,AS&A\(9@Gz9@33333s9@q=
9@3AS&A333339@Q:@q=
p9@9@\A
S&Ap=
c9@q=
p9@333338@fffff&9@A"S&AGzT9@p=
9@Q9@fffff&9@@A$S&A
p=J9@
p=9@Q+9@Y9@0gA&S&AQ+9@K79@Gz9@9@A(S&AGzT9@zGa9@Gz9@\(9@TA.S&AGzT9@(\9@HzG9
@{G9@bA0S&AQ9@333339@zGa9@ffffff9@A2S&A\(9@zG9@RQ9@33333s9@h>A6S&A9@9@ffffff9@(\9
@@WA<S&Affffff9@(\5:@9@p=
9@xlA>S&A333339@p=
:@\(9@)\9@jKA@S&AR9@R:@Q9@Q9@3ABS&AQ9@{G::@)\9@333333:@ADS&A(\9@{Gz:@%C9@{G9
@Lf AJS&AQ:@p=

W:@(\9@=
p=:@ALS&Aq=
p:@\(:@@:@zGa:@
ANS&A33333s:@zG:@zGa:@p=
:@DAPS&Ap=
:@Q:@HzG:@\(:@ARS&Aq=
:@(\:@:@fffff:@LfAXS&A;@;@Gz:@=
p:@@0AZS&AGz:@)\(;@Q:@(\;@A\S&A
p=
;@Gz;@:@
p=
;@A^S&A;@33333s;@;@ffffff;@-A`S&A=
p};@;@q=
0;@\(\;@XWAfS&A)\(;@Gzn;@Q:@Gz.;@0AhS&AQ+;@p=
W;@(\;@fffff&;@xAjS&Ap=
#;@)\(;@;@
p=
;@MsAnS&A;@@;@;@(\5;@gAtS&A(\5;@Hz;@)\(;@(\u;@HAvS&A)\h;@;@ffffff;@Q;@
hAxS&AQk;@;@{G:;@Q^;@%A|S&AGz;@Q;@GzT;@33333s;@6AS&A{G;@Gz.<@Q;@p=
#<@D8AS&Aq=
0<@HzG<@R<@=
p=<@H6dAS&AQ+<@(\O<@(\<@(\5<@h%AS&Ap=
c<@{Gz<@<@)\(<@AS&AHz<@V-<@p=
;@)\;@.AS&AQ;@{G;@Y;@R;@AS&A
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;@(\B;@Gzn;@8AS&A(\;@{G;@Qx;@33333;@AS&A;@Q;@Qk;@
p=;@TAS&A=
p;@zG;@Hz;@(\;@}AS&A=
p;@333333<@Gz;@<@hAAS&AzG!<@L<@;@L<@AS&AQ^<@q=
p<@q=
;@(\<@hqAS&AQE<@(\<@Q8<@{Gz<@WAS&A=
p}<@Gz<@RQ<@<@8AS&A<@Q<@Q8<@@<@('&AS&AHzG<@q=
p<@Qx;@(\;@0AS&AHz;@33333;@R;@)\;@fAS&A;@fffff;@;@fffff;@SAS&AzG;@;@=
p=;@ffffff;@/AS&AQk;@;@Gz.;@
p=J;@AS&Affffff&;@Gzn;@(\;@(\;@AS&A(\;@Q+;@Gz:@(\:@h~AS&A;@q=
0;@Gz:@Gz;@@AS&AGz.;@v:;@:@fffff:@AS&A\(:@fffff&;@R:@Q;@`AS&A33333:@{G:;@:@fffff&;@|AS
&Ap=
;@fffff&;@Gz:@33333:@h[AS&A{G:@(\;@:@p=
:@AS&A33333:@;@p=
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p:@pdAS&AQ:@\(;@=
p:@Q:@MAS&Affffff:@{G:@Gzn:@(\u:@xAS&Affffff:@Q:@:@R:@AS&A:@(\:@Yz:@\(:@PAS&A:@33333:
@:@zG:@?oAS&Ap=
:@=
p:@\(:@33333:@AS&AzG:@fffff:@)\h:@:@@AS&A{Gz:@Q:@Y:@Hz:@HAS&Affffff:@Q:@:@33333:@AS&
AzG:@q=
:@Y:@Q^:@(AS&AY:@:@Q8:@Q^:@p6:AS&AQ^:@Qk:@(\5:@Q^:@(AS&A{G::@:@333333:@Y:@0AT&A
(\O:@Y:@(\9@Gz9@lAT&A9@Q9@

p=9@{G9@WAT&A)\9@9@Y9@Q^9@AT&A3333339@Hz9@R9@p=
9@qAT&AzGa9@(\9@{G:9@zGa9@AT&AGzT9@Gzn9@(\9@)\(9@iAT&AQE9@Q^9@9@Gz.9@6AT&A@9
@(\u9@\(9@zG!9@`AT&AHz9@Hz9@Gz8@p=
8@+bAT&Ap=
8@q=
8@(\8@zG8@tAT&AHz8@p=
8@(\8@8@yAT&AzG8@)\8@\(8@fffff&8@tA
T&A\(\8@Gz8@Gz.8@)\h8@aDA"T&A8@=
p=9@Gz8@q=
09@nA$T&A\(9@(\9@9@Hz9@^A*T&A=
p=9@ffffff9@9@(\O9@A,T&Aq=
09@GzT9@Hz9@3333339@#A.T&Aq=
09@3333339@X28@Gz8@,A0T&A333338@\(9@8@Gz9@wA2T&AQx9@fffff9@q=
p9@9@`A8T&A9@{G9@{G9@~jt9@A:T&A
P6
24 24
255
p$"hfsgsecVx#2Dy00usjOw!<Q=X5Lw/.us$`Mw!<R>Y4Q/K#;w/.us-s:O@[6R0L&B"?!:w/.usw<O>Xy'-56>,2!9"?
;w/.ghx=O=Uhs116"? ;w/.s>R@[f!#n11!8"?!:w/.u=RE^d !i//'"?#;w/.uAVJbh-/f+*)A"?#;w.-
w!DYKdg)+vo^XJe))+A"?2l{--
AUIa??mqqj}OD4y43&9mGP@?p|~wn~eUkhn$"v41r}tc|cLyozscxaJyozraq]Fyozr`{zjVByozscptoaP<youtfehcXI6
ynp|~tdY]XN@.ynp|~scMPME7(ynn~D=P8P8P8O6O5a?kebleeeeeeeNsy
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list_editor.png	Enthought
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table_delete_synthetic.png	OOo
table_display.png	OOo
table_move_down.png	GV
table_move_up.png	GV
table_no_sort.png	OOo
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table_synthetic.png	OOo
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---
add_filter.png | Nuvola
add_module.png | Crystal
add_scene.png | Crystal
add_source.png | Crystal
add.ico | GV
help_action.png | GV
m2.png | GV
mv2.ico | GV
preferences.png | Crystal
P6
CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
hIu-=Kx*C[?e?e?e?e?e?e?e?e4So*C[?e?e)BZ)BZ)BZ)BZ)BZ-G`*C[?e*C[
MATPLOTLIBRC FORMAT

This is a sample matplotlib configuration file - you can find a copy
of it on your system in
site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it
there, please note that it will be overridden in your next install.
If you want to keep a permanent local copy that will not be
over-written, place it in HOME/.matplotlib/matplotlibrc (unix/linux
like systems) and C:\Documents and Settings\yourname\.matplotlib
(win32 systems).
#
This file is best viewed in a editor which supports python mode
syntax highlighting. Blank lines, or lines starting with a comment
symbol, are ignored, as are trailing comments. Other lines must
have the format
key : val # optional comment
#
Colors: for the color values below, you can either use - a
matplotlib color string, such as r, k, or b - an rgb tuple, such as
(1.0, 0.5, 0.0) - a hex string, such as ff00ff or #ff00ff - a scalar
grayscale intensity such as 0.75 - a legal html color name, eg
red,
blue, darkslategray

CONFIGURATION BEGINS HERE

```
# the default backend; one of GTK GTKAgg GTKCairo CocoaAgg FltkAgg
# MacOSX QtAgg Qt4Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG Template
# You can also deploy your own backend outside of matplotlib by
# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'
backend      : GTKAgg

# if you are runing pyplot inside a GUI and your backend choice
# conflicts, we will automatically try and find a compatible one for
# you if backend_fallback is True
#backend_fallback: True
#interactive  : False
#toolbar      : toolbar2   # None | classic | toolbar2
#timezone     : UTC        # a pytz timezone string, eg US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
# location.  This is where the matplotlib fonts, bitmaps, etc reside
#datapath : /home/jdhunter/mpldata


### LINES
# See http://matplotlib.sourceforge.net/api/artist_api.html#module-matplotlib.lines for
 more
# information on line properties.
#lines.linewidth   : 1.0     # line width in points
#lines.linestyle   : -       # solid line
#lines.color       : blue
#lines.marker      : None    # the default marker
#lines.markeredgewidth  : 0.5     # the line width around the marker symbol
#lines.markersize  : 6           # markersize, in points
#lines.dash_joinstyle : miter        # miter|round|bevel
#lines.dash_capstyle : butt          # butt|round|projecting
#lines.solid_joinstyle : miter       # miter|round|bevel
#lines.solid_capstyle : projecting   # butt|round|projecting
#lines.antialiased : True         # render lines in antialised (no jaggies)

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
# circles.  See
# http://matplotlib.sourceforge.net/api/artist_api.html#module-matplotlib.patches
# information on patch properties
#patch.linewidth    : 1.0     # edge width in points
#patch.facecolor   : blue
#patch.edgecolor   : black
#patch.antialiased  : True
   # render patches in antialised (no jaggies)

### FONT
```

```
#
# font properties used by text.Text.  See
# http://matplotlib.sourceforge.net/api/font_manager_api.html for more
# information on font properties.  The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g. Times),
# 'sans-serif' (e.g. Helvetica), 'cursive' (e.g. Zapf-Chancery),
# 'fantasy' (e.g. Western), and 'monospace' (e.g. Courier).  Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them.
#
# The font.style property has three values: normal (or roman), italic
# or oblique.  The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps.  For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
#
# The font.weight
 property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900.  Normal is the same as
# 400, and bold is 700.  bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower.  This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.
#
#font.family        : sans-serif
#font.style         : normal
#font.variant       : normal
#font.weight        : medium
#font.stretch       : normal
# note that font.size controls default text sizes.  To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
#
 small, medium, large, x-large, xx-large, larger, or smaller
#font.size          : 12.0
#font.serif         : Bitstream Vera Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman,
```

Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
#font.sans-serif : Bitstream Vera Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif
#font.cursive : Apple Chancery, Textile, Zapf Chancery, Sand, cursive
#font.fantasy : Comic Sans MS, Chicago, Charcoal, Impact, Western, fantasy
#font.monospace : Bitstream Vera Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

TEXT
text properties used by text.Text. See
http://matplotlib.sourceforge.net/api/artist_api.html#module-matplotlib.text for more
information on text properties

#text.color : black

LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex
#text.usetex
: False # use latex for all text handling. The following fonts
are supported through the usual rc parameter settings:
new century schoolbook, bookman, times, palatino,
zapf chancery, charter, serif, sans-serif, helvetica,
avant garde, courier, monospace, computer modern roman,
computer modern sans serif, computer modern typewriter
If another font is desired which can loaded using the
LaTeX \usepackage command, please inquire at the
matplotlib mailing list
#text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
unicode strings.
#text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
AND IS THEREFORE UNSUPPORTED. PLEASE
DO NOT ASK FOR HELP
IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
preamble is a comma separated list of LaTeX statements
that are included in the LaTeX document preamble.
An example:
text.latex.preamble : \usepackage{bm},\usepackage{euler}
The following packages are always loaded with usetex, so
beware of package collisions: color, geometry, graphicx,
type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
may also be loaded, depending on your font settings

#text.dvipnghack : None # some versions of dvipng don't handle alpha
channel properly. Use True to correct
and flush ~/.matplotlib/tex.cache
before testing and
False to force
correction off. None will try and
guess based on your dvipng version

```
#text.markup         : 'plain'  # Affects how text, such as titles and labels, are
                        # interpreted by default.
                        # 'plain': As plain, unformatted text
   # 'tex': As TeX-like text.  Text between $'s will be
   # formatted as a TeX math expression.
   # This setting has no effect when text.usetex is True.
   # In that case, all text will be sent to TeX for
   # processing.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
#mathtext.cal : cursive
#mathtext.rm  : serif
#mathtext.tt  : monospace
#mathtext.it  : serif:italic
#mathtext.bf  : serif:bold
#mathtext.sf
  : sans
#mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
                # 'stixsans' or 'custom'
#mathtext.fallback_to_cm : True  # When True, use symbols from the Computer Modern
          # fonts when a symbol can not be found in one of
    # the custom math fonts.

#mathtext.default : it # The default font to use for math.
                # Can be any of the LaTeX font names, including
                # the special name "regular" for the same font
                # used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default fontsizes for ticklabels, and so on.  See
# http://matplotlib.sourceforge.net/api/axes_api.html#module-matplotlib.axes
#axes.hold           : True    # whether to clear the axes by default on
#axes.facecolor      : white   # axes background color
#axes.edgecolor      : black   # axes edge color
#axes.linewidth      : 1.0     # edge linewidth
#axes.grid           : False   # display
 grid or not
#axes.titlesize      : large   # fontsize of the axes title
#axes.labelsize      : medium  # fontsize of the x any y labels
#axes.labelcolor     : black
#axes.axisbelow      : False   # whether axis gridlines and ticks are below
                     # the axes elements (lines, text, etc)
```

```
#axes.formatter.limits : -7, 7 # use scientific notation if log10
                        # of the axis range is smaller than the
                        # first or larger than the second
#axes.unicode_minus  : True    # use unicode for the minus symbol
                        # rather than hypen.  See http://en.wikipedia.org/wiki/Plus_sign#Plus_sign

#polaraxes.grid      : True    # display grid on polar axes
#axes3d.grid         : True    # display grid on 3d axes

### TICKS
# see http://matplotlib.sourceforge.net/api/axis_api.html#matplotlib.axis.Tick
#xtick.major.size     : 4      # major tick size in points
#xtick.minor.size     : 2      # minor tick
 size in points
#xtick.major.pad      : 4      # distance to major tick label in points
#xtick.minor.pad      : 4      # distance to the minor tick label in points
#xtick.color          : k      # color of the tick labels
#xtick.labelsize      : medium # fontsize of the tick labels
#xtick.direction      : in     # direction: in or out

#ytick.major.size     : 4      # major tick size in points
#ytick.minor.size     : 2      # minor tick size in points
#ytick.major.pad      : 4      # distance to major tick label in points
#ytick.minor.pad      : 4      # distance to the minor tick label in points
#ytick.color          : k      # color of the tick labels
#ytick.labelsize      : medium # fontsize of the tick labels
#ytick.direction      : in     # direction: in or out


### GRIDS
#grid.color       :   black   # grid color
#grid.linestyle   :   :       # dotted
#grid.linewidth   :   0.5     # in points

### Legend
#legend.fancybox      : False  # if True, use a rounded box for the

                        # legend, else a rectangle
#legend.isaxes        : True
#legend.numpoints     : 2      # the number of points in the legend line
#legend.fontsize      : large
#legend.pad           : 0.0    # deprecated; the fractional whitespace inside the legend border
#legend.borderpad     : 0.5    # border whitspace in fontsize units
#legend.markerscale   : 1.0    # the relative size of legend markers vs. original
# the following dimensions are in axes coords
#legend.labelsep      : 0.010  # the vertical space between the legend entries
#legend.handlelen     : 0.05   # the length of the legend lines
#legend.handletextsep : 0.02   # the space between the legend line and legend text
```

```
#legend.axespad      : 0.02   # the border between the axes and legend edge
#legend.shadow       : False

### FIGURE
# See http://matplotlib.sourceforge.net/api/figure_api.html#matplotlib.figure.Figure
#figure.figsize   : 8, 6    # figure size in inches
#figure.dpi       : 80      # figure dots
 per inch
#figure.facecolor : 0.75    # figure facecolor; 0.75 is scalar gray
#figure.edgecolor : white   # figure edgecolor

# The figure subplot parameters.  All dimensions are fraction of the
# figure width or height
#figure.subplot.left : 0.125  # the left side of the subplots of the figure
#figure.subplot.right : 0.9    # the right side of the subplots of the figure
#figure.subplot.bottom : 0.1    # the bottom of the subplots of the figure
#figure.subplot.top : 0.9    # the top of the subplots of the figure
#figure.subplot.wspace : 0.2    # the amount of width reserved for blank space between subplots
#figure.subplot.hspace : 0.2    # the amount of height reserved for white space between subplots

### IMAGES
#image.aspect : equal             # equal | auto | a number
#image.interpolation  : bilinear  # see help(imshow) for options
#image.cmap   : jet               # gray | jet etc...
#image.lut    : 256               # the size of the colormap lookup table
#image.origin : upper
        # lower | upper
#image.resample  : False

### CONTOUR PLOTS
#contour.negative_linestyle :  dashed # dashed | solid

### Agg rendering
### Warning: experimental, 2008/10/10
#agg.path.chunksize : 0           # 0 to disable; values in the range
                        # 10000 to 100000 can improve speed slightly
                        # and prevent an Agg rendering failure
                        # when plotting very large data sets,
                        # especially if they are very gappy.
                        # It may cause minor artifacts, though.
                        # A value of 20000 is probably a good
                        # starting point.
### SAVING FIGURES
#path.simplify : False  # When True, simplify paths by removing "invisible"
                # points to reduce file size and increase rendering
                # speed
#path.simplify_threshold : 0.1  # The threshold of similarity
```

```
 below which
                        # vertices will be removed in the simplification
                        # process

# the default savefig params can be different from the display params
# Eg, you may want a higher resolution, or to make the figure
# background white
#savefig.dpi       : 100      # figure dots per inch
#savefig.facecolor : white    # figure facecolor when saving
#savefig.edgecolor : white    # figure edgecolor when saving

#cairo.format      : png      # png, ps, pdf, svg

# tk backend params
#tk.window_focus   : False    # Maintain shell focus for TkAgg
#tk.pythoninspect  : False    # tk sets PYTHONINSEPCT

# ps backend params
#ps.papersize      : letter   # auto, letter, legal, ledger, A0-A10, B0-B10
#ps.useafm         : False    # use of afm fonts, results in small files
#ps.usedistiller   : False    # can be: None, ghostscript or xpdf
                              # Experimental: may produce smaller files.

                    # xpdf intended for production of publication quality files,
                              # but requires ghostscript, xpdf and ps2eps
#ps.distiller.res  : 6000      # dpi
#ps.fonttype       : 3         # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
#pdf.compression   : 6 # integer from 0 to 9
                  # 0 disables compression (good for debugging)
#pdf.fonttype      : 3         # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True       # write raster image data directly into the svg file
#svg.image_noscale : False     # suppress scaling of raster data embedded in SVG
#svg.embed_char_paths : True       # embed character outlines in the SVG file

# docstring params
#docstring.hardcopy = False  # set this when you want to generate hardcopy docstring

# Set the verbose flags.  This controls how much information
# matplotlib gives you at runtime and where it goes.  The verbosity
#
 levels are: silent, helpful, debug, debug-annoying.  Any level is
# inclusive of all the levels below it.  If your setting is "debug",
# you'll get all the debug and helpful messages.  When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
```

and paste the output into your report.
#
The "fileo" gives the destination for any calls to verbose.report.
These objects can a filename, or a filehandle like sys.stdout.
#
You can override the rc default verbosity from the command line by
giving the flags --verbose-LEVEL where LEVEL is one of the legal
levels, eg --verbose-helpful.
#
You can access the verbose instance in your code
from matplotlib import verbose.
#verbose.level : silent   # one of silent, helpful, debug, debug-annoying
#verbose.fileo : sys.stdout # a log filename, sys.stdout or sys.stderr
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection
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When a "work that uses the Library" uses material from a header file

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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CREATOR: The GIMP's PNM Filter Version 1.0
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P6
CREATOR: The GIMP's PNM Filter Version 1.0
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<XmI`r.CSZp(5ZpI`rkx!6H_y,:ZpI`rYcmOdunnnzzz-9I>O\1@
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---
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application.ico | Enthought
heading_level_1.png | Enthought
warning.png | GV
<?xml version="1.0" standalone="no"?> <!--*- mode: xml -*-->
<!DOCTYPE glade-interface SYSTEM "http://glade.gnome.org/glade-2.0.dtd">

<glade-interface>

<widget class="GtkDialog" id="dialog_lineprops">
<property name="visible">True</property>
<property name="title" translatable="yes">Line Properties</property>
<property name="type">GTK_WINDOW_TOPLEVEL</property>
<property name="window_position">GTK_WIN_POS_NONE</property>
<property name="modal">False</property>
<property name="resizable">True</property>
<property name="destroy_with_parent">False</property>
<property name="decorated">True</property>
<property name="skip_taskbar_hint">False</property>
<property name="skip_pager_hint">False</property>
<property name="type_hint">GDK_WINDOW_TYPE_HINT_DIALOG</property>
<property name="gravity">GDK_GRAVITY_NORTH_WEST</property>
<property name="has_separator">True</property>

```
 <child internal-child="vbox">
  <widget class="GtkVBox" id="dialog-vbox2">
    <property
 name="visible">True</property>
    <property name="homogeneous">False</property>
    <property name="spacing">0</property>

    <child internal-child="action_area">
 <widget class="GtkHButtonBox" id="dialog-action_area2">
  <property name="visible">True</property>
  <property name="layout_style">GTK_BUTTONBOX_END</property>

  <child>
    <widget class="GtkButton" id="dialog_lineprops_cancelbutton">
      <property name="visible">True</property>
      <property name="can_default">True</property>
      <property name="can_focus">True</property>
      <property name="label">gtk-cancel</property>
      <property name="use_stock">True</property>
      <property name="relief">GTK_RELIEF_NORMAL</property>
      <property name="focus_on_click">True</property>
      <property name="response_id">-6</property>
      <signal name="clicked" handler="on_dialog_lineprops_cancelbutton_clicked" last_modification_time="Mon,
07 Nov 2005 20:52:05 GMT"/>
    </widget>
  </child>


 <child>
    <widget class="GtkButton" id="dialog_lineprops_okbutton">
      <property name="visible">True</property>
      <property name="can_default">True</property>
      <property name="can_focus">True</property>
      <property name="label">gtk-ok</property>
      <property name="use_stock">True</property>
      <property name="relief">GTK_RELIEF_NORMAL</property>
      <property name="focus_on_click">True</property>
      <property name="response_id">-5</property>
      <signal name="clicked" handler="on_dialog_lineprops_okbutton_clicked" last_modification_time="Mon, 07
Nov 2005 20:51:43 GMT"/>
    </widget>
  </child>
 </widget>
 <packing>
  <property name="padding">0</property>
  <property name="expand">False</property>
  <property name="fill">True</property>
  <property name="pack_type">GTK_PACK_END</property>
```

```
 </packing>
    </child>

    <child>
 <widget class="GtkVBox" id="vbox_lineprops">
  <property name="visible">True</property>
  <property name="homogeneous">False</property>

 <property name="spacing">0</property>

  <child>
    <widget class="GtkComboBox" id="combobox_lineprops">
      <property name="visible">True</property>
      <property name="items" translatable="yes"></property>
      <signal name="changed" handler="on_combobox_lineprops_changed" last_modification_time="Mon, 07 Nov
2005 20:40:07 GMT"/>
    </widget>
    <packing>
      <property name="padding">0</property>
      <property name="expand">True</property>
      <property name="fill">True</property>
    </packing>
  </child>

  <child>
    <widget class="GtkFrame" id="frame6">
      <property name="visible">True</property>
      <property name="label_xalign">0</property>
      <property name="label_yalign">0.5</property>
      <property name="shadow_type">GTK_SHADOW_NONE</property>

      <child>
 <widget class="GtkAlignment" id="alignment9">
   <property name="visible">True</property>
   <property name="xalign">0.5</property>
   <property
 name="yalign">0.5</property>
   <property name="xscale">1</property>
   <property name="yscale">1</property>
   <property name="top_padding">0</property>
   <property name="bottom_padding">0</property>
   <property name="left_padding">12</property>
   <property name="right_padding">0</property>

   <child>
     <widget class="GtkVBox" id="vbox5">
       <property name="visible">True</property>
       <property name="homogeneous">False</property>
```

```
      <property name="spacing">0</property>

      <child>
  <widget class="GtkTable" id="table_lineprops">
    <property name="visible">True</property>
    <property name="n_rows">2</property>
    <property name="n_columns">3</property>
    <property name="homogeneous">False</property>
    <property name="row_spacing">0</property>
    <property name="column_spacing">0</property>

    <child>
      <widget class="GtkLabel" id="label11">
        <property name="visible">True</property>
        <property name="label"
translatable="yes">Marker</property>
        <property name="use_underline">False</property>
        <property name="use_markup">False</property>
        <property name="justify">GTK_JUSTIFY_LEFT</property>
        <property name="wrap">False</property>
        <property name="selectable">False</property>
        <property name="xalign">0.5</property>
        <property name="yalign">0.5</property>
        <property name="xpad">0</property>
        <property name="ypad">0</property>
      </widget>
      <packing>
        <property name="left_attach">0</property>
        <property name="right_attach">1</property>
        <property name="top_attach">1</property>
        <property name="bottom_attach">2</property>
        <property name="x_options">fill</property>
        <property name="y_options"></property>
      </packing>
    </child>

    <child>
      <widget class="GtkComboBox" id="combobox_linestyles">
        <property name="visible">True</property>

   <property name="items" translatable="yes"></property>
        <signal name="changed" handler="on_combobox_linestyle_changed" last_modification_time="Mon, 07 Nov
2005 20:43:56 GMT"/>
      </widget>
      <packing>
        <property name="left_attach">1</property>
        <property name="right_attach">2</property>
        <property name="top_attach">0</property>
```

```
        <property name="bottom_attach">1</property>
        <property name="y_options">fill</property>
      </packing>
    </child>

    <child>
      <widget class="GtkComboBox" id="combobox_markers">
        <property name="visible">True</property>
        <property name="items" translatable="yes"></property>
        <signal name="changed" handler="on_combobox_marker_changed" last_modification_time="Mon, 07 Nov
2005 20:43:14 GMT"/>
      </widget>
      <packing>
        <property name="left_attach">1</property>
        <property name="right_attach">2</property>
        <property name="top_attach">1</property>

     <property name="bottom_attach">2</property>
        <property name="x_options">fill</property>
        <property name="y_options">fill</property>
      </packing>
    </child>

    <child>
      <widget class="GtkColorButton" id="colorbutton_linestyle">
        <property name="visible">True</property>
        <property name="can_focus">True</property>
        <property name="use_alpha">True</property>
        <property name="title" translatable="yes">Line color</property>
        <property name="focus_on_click">True</property>
        <signal name="color_set" handler="on_colorbutton_linestyle_color_set" last_modification_time="Mon, 07 Nov
2005 22:13:40 GMT"/>
      </widget>
      <packing>
        <property name="left_attach">2</property>
        <property name="right_attach">3</property>
        <property name="top_attach">0</property>
        <property name="bottom_attach">1</property>
        <property name="x_options">fill</property>
        <property
 name="y_options"></property>
      </packing>
    </child>

    <child>
      <widget class="GtkColorButton" id="colorbutton_markerface">
        <property name="visible">True</property>
        <property name="can_focus">True</property>
```

```
        <property name="use_alpha">False</property>
        <property name="title" translatable="yes">Marker color</property>
        <property name="focus_on_click">True</property>
        <signal name="color_set" handler="on_colorbutton_markerface_color_set" last_modification_time="Mon, 07
Nov 2005 22:14:00 GMT"/>
      </widget>
      <packing>
        <property name="left_attach">2</property>
        <property name="right_attach">3</property>
        <property name="top_attach">1</property>
        <property name="bottom_attach">2</property>
        <property name="x_options">fill</property>
        <property name="y_options"></property>
      </packing>
    </child>

    <child>
      <widget class="GtkLabel" id="label_linestyle">

     <property name="visible">True</property>
        <property name="label" translatable="yes">Line style</property>
        <property name="use_underline">False</property>
        <property name="use_markup">False</property>
        <property name="justify">GTK_JUSTIFY_LEFT</property>
        <property name="wrap">False</property>
        <property name="selectable">False</property>
        <property name="xalign">0.5</property>
        <property name="yalign">0.5</property>
        <property name="xpad">0</property>
        <property name="ypad">0</property>
      </widget>
      <packing>
        <property name="left_attach">0</property>
        <property name="right_attach">1</property>
        <property name="top_attach">0</property>
        <property name="bottom_attach">1</property>
        <property name="x_options">fill</property>
        <property name="y_options"></property>
      </packing>
    </child>
  </widget>
  <packing>
    <property
 name="padding">0</property>
    <property name="expand">True</property>
    <property name="fill">True</property>
  </packing>
      </child>
```

```
    </widget>
   </child>
  </widget>
     </child>

     <child>
  <widget class="GtkLabel" id="fram_lineprops">
   <property name="visible">True</property>
   <property name="label" translatable="yes">&lt;b&gt;Line properties&lt;/b&gt;</property>
   <property name="use_underline">False</property>
   <property name="use_markup">True</property>
   <property name="justify">GTK_JUSTIFY_LEFT</property>
   <property name="wrap">False</property>
   <property name="selectable">False</property>
   <property name="xalign">0.5</property>
   <property name="yalign">0.5</property>
   <property name="xpad">0</property>
   <property name="ypad">0</property>
  </widget>
  <packing>
   <property name="type">label_item</property>
  </packing>
     </child>
    </widget>
    <packing>
     <property name="padding">0</property>

     <property name="expand">True</property>
     <property name="fill">True</property>
    </packing>
   </child>
  </widget>
  <packing>
   <property name="padding">0</property>
   <property name="expand">True</property>
   <property name="fill">True</property>
  </packing>
    </child>
   </widget>
  </child>
 </widget>

</glade-interface>
```

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1_weight.gif	D. Morrill
2_weight.gif	D. Morrill
3_weight.gif	D. Morrill
4_weight.gif	D. Morrill
5_weight.gif	D. Morrill
6_weight.gif	D. Morrill
7_weight.gif	D. Morrill
8_weight.gif	D. Morrill
bottom_center_position.gif	D. Morrill
bottom_left_position.gif	D. Morrill
bottom_right_position.gif	D. Morrill
center_align.gif	D. Morrill
center_left_position.gif	D. Morrill
center_position.gif	D. Morrill
center_right_position.gif	D. Morrill
left_align.gif	D. Morrill
right_align.gif	D. Morrill
top_center_position.gif	D. Morrill
top_left_position.gif	D. Morrill
top_right_position.gif	D. Morrill

P6
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255
:u*lxnY~C~C~C}A|@{@{?z?y?ab[,jdwMrwzyu}}zywtrY^d&Ytz@iPvtwplhebgBu1\w&YtzH~Mwl`]|ZzWvUu`C
uSt+jzKSyWv2az0`y/`x.]w-
]vUwBuSt+jzLUyAsSt+jzJPHMLHA|=w9s2o+i(d\zSt+jzDzILMKH~By=u6o.i(c!]|UuSt+jz>uAxCzDzBy@w<t7p0
j*e#_}YySt+jz5n7p;r;s^wNdwJ`tNfyIavE]rAZnGcStSt+jz,f.i0j0k0?U*C!OkStSt+jz#_}&a~(b(a~/>T*B'RmStSt+j
gWvYyZyQn.<S*B*SnStSt+j:vStStHfVfxScuy(QkStWw[W`Dd{D`uC`uC_tB_tB^sA^sA^sEg|`n

P6
24 24
255
k<(v$v"s*{Je&u#))(&#r){9&,01.,)&#m{X@&1;AB=4-)%!lzS{"}.<IQSLAd+'#lz%u*4DSacXX($ |#us
{,6GWkq]S$ l|s>$+3CR^aVMt9&w&*.:jzqs$(+/{izr!%(+}~yjz!s"%'{
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P6
CREATOR: The GIMP's PNM Filter Version 1.0
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property.png | Eclipse
reader.png | Crystal
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source.png | OOo
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window.png | Eclipse
writer.png | GV
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CREATOR: The GIMP's PNM Filter Version 1.0
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&&&FFFpppFFF%%%(((FFF $$$$$$$$$FFF %%%FFFmmmFFFFFF hhh444yyy:::hhh
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property.png | Eclipse
reader.png | Crystal
renderer.png | Crystal
rendererwindowinteractor.png | Nuvola
rendererwindow.png | Crystal
source.png | OOo

texture.png | Eclipse
window.png | Eclipse
writer.png | GV
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rh`^~`e$l5w^~)o:y^~)oD^~)o"kD^~)o$m%lammmmm#k^hmtzzza/sMd^~^~^~^~^~^~^~^~b^~^~^~^~^~^~^~^~^~e
XcVe^~^~^~^~^~^~^~^~^~b^~^~^~^~^~^~^~^~^~`Kdn9y`_____f_~fmf___a(n_+p5w^~)o,q5w^~)o5w^~)o5w^~)o,qg`
^~_b$lZ^~^~^~DH^~-qu(ndY

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
These are my best guesses at where each icon came from,
this file should be updated whenever icons change.
```

filename source

---

about.png Python Software Foundation
application.ico Gael Varoquaux
P6
24 24
255
pVpTSXWVZc\\pgg|okcQU^nq[SPVSPdLPU[ituk\UQMIEXhOQT[`g`UZWURPuZW[UTXQPWNMUJIRiTm
Please see the LICENSE file.
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group.png | Nuvola
item.png | Eclipse
list_editor.png | Enthought
nb_open.png | Enthought
object.png | Enthought
open.png | Nuvola
table_add.png | OOo
table_colors.png | GV
table_delete.png | OOo
table_delete_synthetic.png | OOo
table_display.png | OOo
table_move_down.png | GV
table_move_up.png | GV
table_no_sort.png | OOo
table_prefs.png | OOo
table_search.png | OOo
table_synthetic.png | OOo
table_undelete.png | OOo

1.341 godspeed_godlib 1.0

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1.342 soappy 0.12.0

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==

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.344 webtapd 1.0

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* /maven-archetype-webapp-1-0-jar-zip/maven-archetype-webapp-1-0-jar/META-INF/maven/org.apache.maven.archetypes/maven-archetype-webapp/pom.xml

1.345 pysnmp 2.0.8

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1.346 pil 1.1.6

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* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/Scripts/gifmaker.py
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/*
* The Python Imaging Library
* $Id: Fill.c 2134 2004-10-06 08:55:20Z fredrik $
*
* fill image with constant pixel value
*
* history:
* 95-11-26 fl moved from Imaging.c
* 96-05-17 fl added radial fill, renamed wedge to linear
* 98-06-23 fl changed ImageFill signature
*
* Copyright (c) Secret Labs AB 1997-98. All rights reserved.
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*/

Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/Fill.c

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

```
/*
* The Python Imaging Library
* $Id: Filter.c 2134 2004-10-06 08:55:20Z fredrik $
*
* apply convolution kernel to image
*
* history:
* 1995-11-26 fl   Created, supports 3x3 kernels
* 1995-11-27 fl   Added 5x5 kernels, copy border
* 1999-07-26 fl   Eliminated a few compiler warnings
* 2002-06-09 fl   Moved kernel definitions to Python
* 2002-06-11 fl   Support floating point kernels
* 2003-09-15 fl   Added ImagingExpand helper
*
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*/
```

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```
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Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/WmfImagePlugin.py
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/GimpPaletteFile.py
No license file was found, but licenses were detected in source scan.

```
/*
* The Python Imaging Library
* $Id: Palette.c 2591 2005-12-08 21:25:29Z fredrik $
*
* imaging palette object
*
* history:
* 1996-05-05 fl   Added to library
* 1996-05-27 fl   Added colour mapping stuff
* 1997-05-12 fl   Support RGBA palettes
* 2005-02-09 fl   Removed grayscale entries from web palette
*
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Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/Image.py
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/TiffImagePlugin.py
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**/

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/*
* The Python Imaging Library
* $Id: ModeFilter.c 2134 2004-10-06 08:55:20Z fredrik $
*
* mode filter
*
* history:

* 2002-06-08 fl   Created (based on code from IFUNC95)
* 2004-10-05 fl   Rewritten; use a simpler brute-force algorithm
*
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image from the file; higher resolutions are encoded in a proprietary

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* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/PcdImagePlugin.py
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/*
* The Python Imaging Library
* $Id: RankFilter.c 2929 2006-11-22 21:12:55Z fredrik $
*
* min, max, median filters
*
* history:
* 2002-06-08 fl   Created
*
* Copyright (c) Secret Labs AB 2002. All rights reserved.
*
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*/
/* Fast rank algorithm (due to Wirth), based on public domain code
  by Nicolas Devillard, available at http://ndevilla.free.fr */

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* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/RankFilter.c
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STARTFONT 2.1
COMMENT $XConsortium: courB08.bdf,v 1.5 94/04/10 21:46:11 gildea Exp $
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COMMENT
COMMENT
FONT -Adobe-Courier-Bold-R-Normal--11-80-100-100-M-60-ISO8859-1
SIZE 8 100 100
FONTBOUNDINGBOX 8 11 -1 -2
STARTPROPERTIES
22
COMMENT Begin LogicalFontDescription
FONTNAME_REGISTRY ""
FAMILY_NAME "Courier"
FOUNDRY "Adobe"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 11
POINT_SIZE 80
RESOLUTION_X 100
RESOLUTION_Y 100
SPACING "M"
AVERAGE_WIDTH 60

CHARSET_REGISTRY "ISO8859"
CHARSET_ENCODING "1"
COMMENT END LogicalFontDescription
CHARSET_COLLECTIONS "ASCII ISO8859-1 ADOBE-STANDARD"
FACE_NAME "Courier Bold"
COPYRIGHT "Copyright (c) 1987 Adobe Systems, Inc., Portions Copyright 1988 Digital Equipment Corp."
COMMENT ***** end of inserted font properties
FONT_ASCENT 8
FONT_DESCENT 2
CAP_HEIGHT 6
X_HEIGHT 5
ENDPROPERTIES
CHARS 194
STARTCHAR space
ENCODING 32
SWIDTH 600 0
DWIDTH 6 0
BBX 1 1 0 0
BITMAP
00
ENDCHAR
STARTCHAR exclam
ENCODING 33
SWIDTH 600 0
DWIDTH 6 0
BBX 2 6 1 0
BITMAP
C0
C0
C0
C0
00
C0
ENDCHAR
STARTCHAR quotedbl
ENCODING 34
SWIDTH 600 0
DWIDTH 6 0
BBX 3 3 1 3
BITMAP
A0
A0
A0
ENDCHAR
STARTCHAR numbersign
ENCODING 35
SWIDTH 600 0
DWIDTH 6 0

BBX 5 8 0 -1
BITMAP
50
50
F8
50
50
F8
50
50
ENDCHAR
STARTCHAR
dollar
ENCODING 36
SWIDTH 600 0
DWIDTH 6 0
BBX 5 9 0 -1
BITMAP
20
78
C8
F0
78
18
D8
F0
20
ENDCHAR
STARTCHAR percent
ENCODING 37
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
E0
A8
F0
20
78
A8
38
ENDCHAR
STARTCHAR ampersand
ENCODING 38
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP

38
60
30
7C
D8
7C
ENDCHAR
STARTCHAR quoteright
ENCODING 39
SWIDTH 600 0
DWIDTH 6 0
BBX 3 3 1 4
BITMAP
60
40
80
ENDCHAR
STARTCHAR parenleft
ENCODING 40
SWIDTH 600 0
DWIDTH 6 0
BBX 3 8 1 -1
BITMAP
20
40
C0
C0
C0
C0
40
20
ENDCHAR
STARTCHAR parenright
ENCODING 41
SWIDTH 600 0
DWIDTH 6 0
BBX 3 8 1 -1
BITMAP
80
40
60
60
60
60
40
80
ENDCHAR
STARTCHAR asterisk

ENCODING 42
SWIDTH 600 0
DWIDTH 6 0
BBX 4 4 0 3
BITMAP
20
F0
60
90
ENDCHAR
STARTCHAR plus
ENCODING 43
SWIDTH 600 0
DWIDTH 6 0
BBX 5 5 0 1
BITMAP
20
20
F8
20
20
ENDCHAR
STARTCHAR comma
ENCODING 44
SWIDTH 600 0
DWIDTH 6 0
BBX 3 3 1 -2
BITMAP
60
40
80
ENDCHAR
STARTCHAR minus
ENCODING 45
SWIDTH 600 0
DWIDTH 6 0
BBX 5 1 0 3
BITMAP
F8
ENDCHAR
STARTCHAR
period
ENCODING 46
SWIDTH 600 0
DWIDTH 6 0
BBX 2 1 1 0
BITMAP
C0

ENDCHAR
STARTCHAR slash
ENCODING 47
SWIDTH 600 0
DWIDTH 6 0
BBX 4 8 1 -1
BITMAP
10
10
20
20
40
40
80
80
ENDCHAR
STARTCHAR zero
ENCODING 48
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
70
D8
D8
D8
D8
D8
70
ENDCHAR
STARTCHAR one
ENCODING 49
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
30
F0
30
30
30
30
FC
ENDCHAR
STARTCHAR two
ENCODING 50
SWIDTH 600 0
DWIDTH 6 0

BBX 5 7 0 0
BITMAP
70
D8
18
30
60
D8
F8
ENDCHAR
STARTCHAR three
ENCODING 51
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
70
D8
18
70
18
D8
70
ENDCHAR
STARTCHAR four
ENCODING 52
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
18
38
58
D8
FC
18
18
ENDCHAR
STARTCHAR five
ENCODING 53
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
F8
C0
F0
D8

18
98
F0
ENDCHAR
STARTCHAR six
ENCODING 54
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
70
D8
C0
F0
D8
D8
70
ENDCHAR
STARTCHAR seven
ENCODING 55
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
F8
D8
18
30
30
60
60
ENDCHAR
STARTCHAR
eight
ENCODING 56
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
70
D8
D8
70
D8
D8
70
ENDCHAR
STARTCHAR nine

ENCODING 57
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
70
D8
D8
78
18
D8
70
ENDCHAR
STARTCHAR colon
ENCODING 58
SWIDTH 600 0
DWIDTH 6 0
BBX 2 4 1 0
BITMAP
C0
00
00
C0
ENDCHAR
STARTCHAR semicolon
ENCODING 59
SWIDTH 600 0
DWIDTH 6 0
BBX 3 6 0 -2
BITMAP
60
00
00
60
40
80
ENDCHAR
STARTCHAR less
ENCODING 60
SWIDTH 600 0
DWIDTH 6 0
BBX 4 5 0 1
BITMAP
30
60
C0
60
30

ENDCHAR
STARTCHAR equal
ENCODING 61
SWIDTH 600 0
DWIDTH 6 0
BBX 4 3 0 2
BITMAP
F0
00
F0
ENDCHAR
STARTCHAR greater
ENCODING 62
SWIDTH 600 0
DWIDTH 6 0
BBX 4 5 1 1
BITMAP
C0
60
30
60
C0
ENDCHAR
STARTCHAR question
ENCODING 63
SWIDTH 600 0
DWIDTH 6 0
BBX 5 6 0 0
BITMAP
70
98
30
60
00
60
ENDCHAR
STARTCHAR at
ENCODING 64
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 0 -1
BITMAP
70
C8
98
A8
A8
9C

C0
70
ENDCHAR
STARTCHAR A
ENCODING 65
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR B
ENCODING 66
SWIDTH 600 0
DWIDTH
6 0
BBX 6 6 -1 0
BITMAP
F8
6C
78
6C
6C
F8
ENDCHAR
STARTCHAR C
ENCODING 67
SWIDTH 600 0
DWIDTH 6 0
BBX 5 6 0 0
BITMAP
78
D8
C0
C0
D8
70
ENDCHAR
STARTCHAR D
ENCODING 68
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0

BITMAP
F8
6C
6C
6C
6C
F8
ENDCHAR
STARTCHAR E
ENCODING 69
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
FC
60
78
60
6C
FC
ENDCHAR
STARTCHAR F
ENCODING 70
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
FC
60
78
60
60
F0
ENDCHAR
STARTCHAR G
ENCODING 71
SWIDTH 600 0
DWIDTH 6 0
BBX 5 6 0 0
BITMAP
70
D8
C0
F8
D8
78
ENDCHAR
STARTCHAR H

ENCODING 72
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
EE
6C
7C
6C
6C
EE
ENDCHAR
STARTCHAR I
ENCODING 73
SWIDTH 600 0
DWIDTH 6 0
BBX 4 6 0 0
BITMAP
F0
60
60
60
60
F0
ENDCHAR
STARTCHAR J
ENCODING 74
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
3C
18
18
D8
D8
70
ENDCHAR
STARTCHAR K
ENCODING 75
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
EC
68
70
78

6C
F6
ENDCHAR
STARTCHAR L
ENCODING 76
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
F0
60
60
60
6C
FC
ENDCHAR
STARTCHAR M
ENCODING
77
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
C4
6C
6C
7C
54
D4
ENDCHAR
STARTCHAR N
ENCODING 78
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
EE
74
74
6C
6C
E4
ENDCHAR
STARTCHAR O
ENCODING 79
SWIDTH 600 0
DWIDTH 6 0
BBX 5 6 0 0

BITMAP
70
D8
D8
D8
D8
70
ENDCHAR
STARTCHAR P
ENCODING 80
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
F8
6C
6C
78
60
F0
ENDCHAR
STARTCHAR Q
ENCODING 81
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 -1
BITMAP
70
D8
D8
D8
D8
70
18
ENDCHAR
STARTCHAR R
ENCODING 82
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
F8
6C
6C
78
6C
F6
ENDCHAR

STARTCHAR S
ENCODING 83
SWIDTH 600 0
DWIDTH 6 0
BBX 5 6 0 0
BITMAP
78
C8
F0
38
98
F0
ENDCHAR
STARTCHAR T
ENCODING 84
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
FC
B4
30
30
30
78
ENDCHAR
STARTCHAR U
ENCODING 85
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
EE
6C
6C
6C
6C
38
ENDCHAR
STARTCHAR V
ENCODING 86
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
EE
6C
28

38
38
10
ENDCHAR
STARTCHAR W
ENCODING 87
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
D6
54
54
7C
38
28
ENDCHAR
STARTCHAR
X
ENCODING 88
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 0 0
BITMAP
CC
78
30
30
78
CC
ENDCHAR
STARTCHAR Y
ENCODING 89
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
E6
66
3C
18
18
3C
ENDCHAR
STARTCHAR Z
ENCODING 90
SWIDTH 600 0
DWIDTH 6 0

BBX 5 6 0 0
BITMAP
F8
D8
30
60
D8
F8
ENDCHAR
STARTCHAR bracketleft
ENCODING 91
SWIDTH 600 0
DWIDTH 6 0
BBX 3 8 1 -1
BITMAP
E0
C0
C0
C0
C0
C0
C0
E0
ENDCHAR
STARTCHAR backslash
ENCODING 92
SWIDTH 600 0
DWIDTH 6 0
BBX 4 8 0 -1
BITMAP
80
80
40
40
20
20
10
10
ENDCHAR
STARTCHAR bracketright
ENCODING 93
SWIDTH 600 0
DWIDTH 6 0
BBX 3 8 1 -1
BITMAP
E0
60
60

60
60
60
60
E0
ENDCHAR
STARTCHAR asciicircum
ENCODING 94
SWIDTH 600 0
DWIDTH 6 0
BBX 5 3 0 4
BITMAP
20
70
D8
ENDCHAR
STARTCHAR underscore
ENCODING 95
SWIDTH 600 0
DWIDTH 6 0
BBX 6 1 0 -2
BITMAP
FC
ENDCHAR
STARTCHAR quoteleft
ENCODING 96
SWIDTH 600 0
DWIDTH 6 0
BBX 3 3 1 4
BITMAP
C0
40
20
ENDCHAR
STARTCHAR a
ENCODING 97
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 0 0
BITMAP
70
D8
78
D8
FC
ENDCHAR
STARTCHAR

b
ENCODING 98
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 -1 0
BITMAP
E0
60
78
6C
6C
6C
F8
ENDCHAR
STARTCHAR c
ENCODING 99
SWIDTH 600 0
DWIDTH 6 0
BBX 5 5 0 0
BITMAP
70
D8
C0
D8
70
ENDCHAR
STARTCHAR d
ENCODING 100
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
38
18
78
D8
D8
D8
7C
ENDCHAR
STARTCHAR e
ENCODING 101
SWIDTH 600 0
DWIDTH 6 0
BBX 5 5 0 0
BITMAP
70
D8

F8
C0
78
ENDCHAR
STARTCHAR f
ENCODING 102
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 0
BITMAP
38
60
F8
60
60
60
F8
ENDCHAR
STARTCHAR g
ENCODING 103
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 -2
BITMAP
6C
D8
D8
D8
78
18
F0
ENDCHAR
STARTCHAR h
ENCODING 104
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 -1 0
BITMAP
E0
60
78
6C
6C
6C
6C
ENDCHAR
STARTCHAR i
ENCODING 105

SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
30
00
F0
30
30
30
FC
ENDCHAR
STARTCHAR j
ENCODING 106
SWIDTH 600 0
DWIDTH 6 0
BBX 4 9 0 -2
BITMAP
30
00
F0
30
30
30
30
30
E0
ENDCHAR
STARTCHAR k
ENCODING 107
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 0
BITMAP
E0
60
6C
78
70
78
6E
ENDCHAR
STARTCHAR l
ENCODING 108
SWIDTH 600
0
DWIDTH 6 0
BBX 6 7 0 0

BITMAP
F0
30
30
30
30
30
FC
ENDCHAR
STARTCHAR m
ENCODING 109
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 -1 0
BITMAP
F8
7C
54
54
54
ENDCHAR
STARTCHAR n
ENCODING 110
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 -1 0
BITMAP
D8
6C
6C
6C
6C
ENDCHAR
STARTCHAR o
ENCODING 111
SWIDTH 600 0
DWIDTH 6 0
BBX 5 5 0 0
BITMAP
70
D8
D8
D8
70
ENDCHAR
STARTCHAR p
ENCODING 112
SWIDTH 600 0

DWIDTH 6 0
BBX 6 7 -1 -2
BITMAP
F8
6C
6C
6C
78
60
F0
ENDCHAR
STARTCHAR q
ENCODING 113
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 -2
BITMAP
6C
D8
D8
D8
78
18
3C
ENDCHAR
STARTCHAR r
ENCODING 114
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 0 0
BITMAP
DC
74
60
60
F0
ENDCHAR
STARTCHAR s
ENCODING 115
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 0 0
BITMAP
78
E0
78
1C
F8

ENDCHAR
STARTCHAR t
ENCODING 116
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
60
60
F8
60
60
6C
38
ENDCHAR
STARTCHAR u
ENCODING 117
SWIDTH 600 0
DWIDTH 6 0
BBX 7 5 -1 0
BITMAP
EC
6C
6C
6C
3E
ENDCHAR
STARTCHAR v
ENCODING 118
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 -1 0
BITMAP
EC
6C
38
38
10
ENDCHAR
STARTCHAR
w
ENCODING 119
SWIDTH 600 0
DWIDTH 6 0
BBX 7 5 -1 0
BITMAP
D6
54

7C
3C
28
ENDCHAR
STARTCHAR x
ENCODING 120
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 0 0
BITMAP
EC
78
30
78
DC
ENDCHAR
STARTCHAR y
ENCODING 121
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 -2
BITMAP
EE
6C
6C
28
38
30
E0
ENDCHAR
STARTCHAR z
ENCODING 122
SWIDTH 600 0
DWIDTH 6 0
BBX 5 5 0 0
BITMAP
F8
B0
60
D8
F8
ENDCHAR
STARTCHAR braceleft
ENCODING 123
SWIDTH 600 0
DWIDTH 6 0
BBX 4 8 1 -1
BITMAP

30
60
60
C0
60
60
60
30
ENDCHAR
STARTCHAR bar
ENCODING 124
SWIDTH 600 0
DWIDTH 6 0
BBX 1 7 2 -1
BITMAP
80
80
80
80
80
80
80
ENDCHAR
STARTCHAR braceright
ENCODING 125
SWIDTH 600 0
DWIDTH 6 0
BBX 4 8 0 -1
BITMAP
C0
60
60
30
60
60
60
C0
ENDCHAR
STARTCHAR asciitilde
ENCODING 126
SWIDTH 600 0
DWIDTH 6 0
BBX 5 2 0 3
BITMAP
68
B0
ENDCHAR
STARTCHAR exclamdown

ENCODING 161
SWIDTH 600 0
DWIDTH 6 0
BBX 2 7 1 -2
BITMAP
C0
00
C0
C0
C0
C0
C0
ENDCHAR
STARTCHAR cent
ENCODING 162
SWIDTH 600 0
DWIDTH 6 0
BBX 5 8 0 -1
BITMAP
20
20
78
C8
C0
78
20
20
ENDCHAR
STARTCHAR
 sterling
ENCODING 163
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
38
68
20
F8
20
64
F8
ENDCHAR
STARTCHAR currency
ENCODING 164
SWIDTH 600 0
DWIDTH 6 0
BBX 5 5 0 1

BITMAP
88
70
50
70
88
ENDCHAR
STARTCHAR yen
ENCODING 165
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
CC
48
FC
30
FC
30
78
ENDCHAR
STARTCHAR brokenbar
ENCODING 166
SWIDTH 600 0
DWIDTH 6 0
BBX 1 9 2 -2
BITMAP
80
80
80
80
00
80
80
80
80
ENDCHAR
STARTCHAR section
ENCODING 167
SWIDTH 600 0
DWIDTH 6 0
BBX 5 8 0 -1
BITMAP
78
48
60
90
48

30
90
F0
ENDCHAR
STARTCHAR dieresis
ENCODING 168
SWIDTH 600 0
DWIDTH 6 0
BBX 3 1 1 5
BITMAP
A0
ENDCHAR
STARTCHAR copyright
ENCODING 169
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
30
48
B4
A4
B4
48
30
ENDCHAR
STARTCHAR ordfeminine
ENCODING 170
SWIDTH 600 0
DWIDTH 6 0
BBX 4 5 1 2
BITMAP
E0
10
D0
00
F0
ENDCHAR
STARTCHAR guillemotleft
ENCODING 171
SWIDTH 600 0
DWIDTH 6 0
BBX 7 5 -1 0
BITMAP
36
6C
D8
6C

36
ENDCHAR
STARTCHAR logicalnot
ENCODING 172
SWIDTH 600 0
DWIDTH 6 0
BBX 5 3 0 2
BITMAP
F8
08
08
ENDCHAR
STARTCHAR
 hyphen
ENCODING 173
SWIDTH 600 0
DWIDTH 6 0
BBX 5 1 0 3
BITMAP
F8
ENDCHAR
STARTCHAR registered
ENCODING 174
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 0 0
BITMAP
38
44
BA
B2
AA
44
38
ENDCHAR
STARTCHAR macron
ENCODING 175
SWIDTH 600 0
DWIDTH 6 0
BBX 4 1 0 5
BITMAP
F0
ENDCHAR
STARTCHAR degree
ENCODING 176
SWIDTH 600 0
DWIDTH 6 0
BBX 4 3 0 4

BITMAP
60
90
60
ENDCHAR
STARTCHAR plusminus
ENCODING 177
SWIDTH 600 0
DWIDTH 6 0
BBX 5 6 0 0
BITMAP
20
20
F8
20
00
F8
ENDCHAR
STARTCHAR twosuperior
ENCODING 178
SWIDTH 600 0
DWIDTH 6 0
BBX 3 4 1 3
BITMAP
60
A0
40
E0
ENDCHAR
STARTCHAR threesuperior
ENCODING 179
SWIDTH 600 0
DWIDTH 6 0
BBX 3 4 1 3
BITMAP
E0
40
20
C0
ENDCHAR
STARTCHAR acute
ENCODING 180
SWIDTH 600 0
DWIDTH 6 0
BBX 2 2 2 5
BITMAP
40
80

ENDCHAR
STARTCHAR mu
ENCODING 181
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 -2
BITMAP
EC
6C
6C
6C
7E
40
40
ENDCHAR
STARTCHAR paragraph
ENCODING 182
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 0 -1
BITMAP
7C
A8
A8
68
28
28
28
6C
ENDCHAR
STARTCHAR periodcentered
ENCODING 183
SWIDTH
600 0
DWIDTH 6 0
BBX 2 1 1 3
BITMAP
C0
ENDCHAR
STARTCHAR cedilla
ENCODING 184
SWIDTH 600 0
DWIDTH 6 0
BBX 3 3 1 -2
BITMAP
40
20
C0

ENDCHAR
STARTCHAR onesuperior
ENCODING 185
SWIDTH 600 0
DWIDTH 6 0
BBX 3 4 1 3
BITMAP
C0
40
40
E0
ENDCHAR
STARTCHAR ordmasculine
ENCODING 186
SWIDTH 600 0
DWIDTH 6 0
BBX 4 5 1 2
BITMAP
60
90
60
00
F0
ENDCHAR
STARTCHAR guillemotright
ENCODING 187
SWIDTH 600 0
DWIDTH 6 0
BBX 7 5 -1 0
BITMAP
D8
6C
36
6C
D8
ENDCHAR
STARTCHAR onequarter
ENCODING 188
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 0
BITMAP
C0
44
48
F4
2C
5E

04
ENDCHAR
STARTCHAR onehalf
ENCODING 189
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 0
BITMAP
C0
44
48
F6
2A
44
0E
ENDCHAR
STARTCHAR threequarters
ENCODING 190
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 0
BITMAP
E0
44
28
D4
2C
5E
04
ENDCHAR
STARTCHAR questiondown
ENCODING 191
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 -2
BITMAP
30
00
30
30
60
C8
70
ENDCHAR
STARTCHAR Agrave
ENCODING 192
SWIDTH 600 0
DWIDTH 6 0

BBX 7 9 -1 0
BITMAP
20
10
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Aacute
ENCODING
193
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
10
20
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Acircumflex
ENCODING 194
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
10
28
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Atilde
ENCODING 195
SWIDTH 600 0

DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
34
48
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Adieresis
ENCODING 196
SWIDTH 600 0
DWIDTH 6 0
BBX 7 8 -1 0
BITMAP
28
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Aring
ENCODING 197
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
30
48
30
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR AE
ENCODING 198
SWIDTH 600 0
DWIDTH 6 0

BBX 7 6 -1 0
BITMAP
7E
3A
6C
78
DA
DE
ENDCHAR
STARTCHAR Ccedilla
ENCODING 199
SWIDTH 600 0
DWIDTH 6 0
BBX 5 8 0 -2
BITMAP
78
D8
C0
C0
D8
70
10
60
ENDCHAR
STARTCHAR Egrave
ENCODING 200
SWIDTH 600 0
DWIDTH 6 0
BBX 6 9 -1 0
BITMAP
20
10
00
FC
64
78
60
6C
FC
ENDCHAR
STARTCHAR Eacute
ENCODING 201
SWIDTH 600 0
DWIDTH 6 0
BBX 6 9 -1 0
BITMAP
10
20

00
FC
64
78
60
6C
FC
ENDCHAR
STARTCHAR Ecircumflex
ENCODING 202
SWIDTH
600 0
DWIDTH 6 0
BBX 6 9 -1 0
BITMAP
20
50
00
FC
64
78
60
6C
FC
ENDCHAR
STARTCHAR Edieresis
ENCODING 203
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 -1 0
BITMAP
50
00
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Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/Images/courB08.bdf
No license file was found, but licenses were detected in source scan.

version.

Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/JpegImagePlugin.py
No license file was found, but licenses were detected in source scan.

The Python Imaging Library
$Id: README 2939 2006-12-03 13:43:51Z fredrik $

Release 1.1.6 (December 3, 2006)

==========
The Python Imaging Library 1.1.6
==========

Contents

+ Introduction
+ Support Options
 - Commercial support
 - Free support
+ Software License
+ Build instructions (all platforms)
 - Additional notes for Mac OS X
 - Additional notes for Windows

Introduction

The Python Imaging Library (PIL) adds image processing capabilities
to your Python environment. This library provides extensive file
format support, an efficient internal representation, and powerful
image processing capabilities.

This source kit has been built and tested on Windows
NT/2000/XP, Mac
OS X, and most major Unix platforms (including Alpha, Solaris, and
Intel systems). We believe that it should work on most modern
platforms (people are using it on Crays, after all ;-)

The main distribution site for this software is:

    http://www.pythonware.com/products/pil/

That site also contains information about free and commercial support
options, PIL add-ons, answers to frequently asked questions, and more.

Development versions (alphas, betas) are available here:

    http://effbot.org/downloads/

The PIL handbook is not included in this distribution; to get the
latest version, check:

    http://www.pythonware.com/library/
    http://effbot.org/books/imagingbook/ (drafts)

For installation and licensing details, see below.

Support Options

+ Commercial Support

Secret Labs (PythonWare) offers support
contracts for companies using
the Python Imaging Library in commercial applications, and in mission-
critical environments. The support contract includes technical support,
bug fixes, extensions to the PIL library, sample applications, and more.

For the full story, check:

    http://www.pythonware.com/products/pil/support.htm

+ Free Support

For support and general questions on the Python Imaging Library, send
e-mail to the Image SIG mailing list:

    image-sig@python.org

You can join the Image SIG by sending a mail to:

    image-sig-request@python.org

Put "subscribe" in the message body to automatically subscribe to the
list, or "help" to get additional information. Alternatively, you can
send your questions to the Python mailing list, python-list@python.org,
or post them to the newsgroup comp.lang.python. DO NOT SEND SUPPORT
QUESTIONS TO PYTHONWARE ADDRESSES.

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The
 Python Imaging Library is

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Build instructions (all platforms)

For a list of changes in this release, see the CHANGES document.

0. If you're in a hurry, try this:

```
$ gunzip Imaging-1.1.6.tar.gz
$ tar xvf Imaging-1.1.6.tar
$ cd Imaging-1.1.6
$ python setup.py install
```

If you prefer to know what you're doing, read on.

1. Prerequisites.

If you need any of the features described below, make sure you have the necessary libraries before building PIL.

feature	library
JPEG support	libjpeg (6a or 6b) http://www.ijg.org http://www.ijg.org/files/jpegsrc.v6b.tar.gz ftp://ftp.uu.net/graphics/jpeg/
PNG support	zlib (1.2.3 or later is recommended) http://www.gzip.org/zlib/
OpenType/TrueType support	freetype2 (2.1.3 or later is recommended) http://www.freetype.org http://freetype.sourceforge.net

If you have a recent Linux version, the libraries provided with the operating system usually work just fine. If some library is missing, installing a prebuilt version (jpeg-devel, zlib-devel, etc) is usually easier than building from source.

If you're using Mac OS X, you can use the 'fink' tool to install missing libraries (also see the Mac OS X section below).

Similar tools are available for many other platforms

(such as
'apt-get' for Debian).

2. To build under Python 1.5.2, you need to install the stand-alone
version of the distutils library:

http://www.python.org/sigs/distutils-sig/download.html

For newer releases, the distutils library is included in the
Python standard library.

3. If you didn't build Python from sources, make sure you have
Python's build support files on your machine. If you've down-
loaded a prebuilt package (e.g. a Linux RPM), you probably
need additional developer packages. Look for packages named
"python-devel", "py-dev", or similar.

4. When you have everything you need, unpack the PIL distribution
(the file Imaging-1.1.6.tar.gz) in your Python extensions
directory (if you have one, that is. If not, feel free to
unpack it in any other suitable directory).

```
$ cd Python-2.4/Extensions # example
$ gunzip Imaging-1.1.6.tar.gz
$ tar xvf Imaging-1.1.6.tar
```

5. Build the library. We recommend that you
do an in-place build,
and run the self test before installing.

```
$ cd Imaging-1.1.6
$ python setup.py build_ext -i
$ python selftest.py
```

When the build finishes, a summary report is shown. Make sure
that the optional components you need are included.

```
--------------------------------------------------------------------
PIL 1.1.6 BUILD SUMMARY
--------------------------------------------------------------------
*** TKINTER support not available (Tcl/Tk 8.3 libraries needed)
--- JPEG support ok
--- ZLIB (PNG/ZIP) support ok
--- FREETYPE support ok
```

If the build script won't find a given component, you can edit the setup.py file and set the appropriate ROOT variable. For details, see instructions in the file.

6. If the setup.py and selftest.py commands finish without any errors, you're ready to install the library:

```
$ python setup.py install
```

(depending on how Python has been installed on your machine, you might have to log in as a superuser to run the 'install' command.)

Additional notes for Mac OS X

On Mac OS X you will usually install additional software such as libjpeg or freetype with the "fink" tool, and then it ends up in "/sw". If you have installed the libraries elsewhere, you may have to tweak the "setup.py" file before building.

Additional notes for Windows

On Windows, you need to tweak the ROOT settings in the "setup.py" file, to make it find the external libraries. See comments in the file for details.

Make sure to build PIL and the external libraries with the same runtime linking options as
was used for the Python interpreter
(usually /MD, under Visual Studio).

Note that most Python distributions include libraries compiled for Microsoft Visual Studio. To build extensions using other tool chains, see the "Using non-Microsoft compilers on Windows" section in the distutils handbook:

http://www.python.org/doc/current/inst/non-ms-compilers.html

For additional information on how to build extensions using the
popular MinGW compiler, see:

    http://mingw.org (compiler)
    http://sebsauvage.net/python/mingw.html (build instructions)
    http://sourceforge.net/projects/gnuwin32 (prebuilt libraries)

Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/README
No license file was found, but licenses were detected in source scan.

Released to the public domain 16-Jan-2001,

Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/doctest.py
No license file was found, but licenses were detected in source scan.

Copyright (c) 1997-2004 by Secret Labs AB. All rights reserved.

Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/PdfImagePlugin.py
No license file was found, but licenses were detected in source scan.

/*
* The Python Imaging Library
* $Id: Quant.c 2284 2005-02-07 20:58:58Z fredrik $
*
* image quantizer
*
* history:
* 1998-09-10 tjs Contributed
* 1998-12-29 fl   Added to PIL 1.0b1
* 2004-02-21 fl   Fixed bogus free() on quantization error
* 2005-02-07 fl   Limit number of colors to 256
*
* Written by Toby J Sargeant <tjs@longford.cs.monash.edu.au>.
*
* Copyright (c) 1998 by Toby J Sargeant
* Copyright (c) 1998-2004 by Secret Labs AB. All rights reserved.
*
* See the README file for information on usage and redistribution.
*/

Found in path(s):
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/Quant.c

1.347 afero 1.5.1

1.347.1 Available under license :

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Version 2.0, January 2004
http://www.apache.org/licenses/

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1.348 xml-apis 1.3.04

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1.350 jwalterweatherman 1.1.0

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1.351 cast 1.3.1

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1.352 golang-snappy 0.0.3

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1.353 istack-commons 3.0.5

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* /istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml
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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h

ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.strea
m,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.log
ging;version="3.0.5",com.sun.istack.localization;version="3.0.5"
Bundle-Name:
 istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:
27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

Found in path(s):
* /istack-commons-runtime-3-0-5-jar/META-INF/MANIFEST.MF

1.354 python-certifi 2018.01.18

1.354.1 Available under license :

This packge contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.355 fsnotify 1.4.9

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1.356 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for

Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.357 webencodings 0.5.1

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1.358 gotenv 1.2.0

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1.360 html5lib 1.0.1

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1.361 python-certifi 2020.12.05

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1.362 wsgiref 0.1.2

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* /wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref/validate.py
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Metadata-Version: 1.0
Name: wsgiref
Version: 0.1.2
Summary: WSGI (PEP 333) Reference Library
Home-page: http://cheeseshop.python.org/pypi/wsgiref
Author: Phillip J. Eby
Author-email: web-sig@python.org
License: PSF or ZPL
Description: This is a standalone release of the ``wsgiref`` library to be included in
    Python 2.5. For the standalone version's documentation, see:

    HTML
    http://peak.telecommunity.com/wsgiref_docs/

    PDF
    http://peak.telecommunity.com/wsgiref.pdf

Platform: UNKNOWN

Found in path(s):
* /wsgiref-0-1-2-2-zip/wsgiref-0.1.2/wsgiref.egg-info/PKG-INFO
* /wsgiref-0-1-2-2-zip/wsgiref-0.1.2/PKG-INFO

1.363 handlebarsjs 4.0.6

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handlebars v4.0.4

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Manifest-Version: 1.0
Export-Package: com.github.jknack.handlebars.cache;uses:="com.github.j
knack.handlebars,com.github.jknack.handlebars.io,org.apache.commons.l
ang3.tuple";version="4.0.6",com.github.jknack.handlebars.context;uses
:="com.github.jknack.handlebars";version="4.0.6",com.github.jknack.ha
ndlebars;uses:="com.github.jknack.handlebars.cache,com.github.jknack.
handlebars.io";version="4.0.6",com.github.jknack.handlebars.helper;us
es:="com.github.jknack.handlebars,com.github.jknack.handlebars.js";ve
rsion="4.0.6",com.github.jknack.handlebars.io;uses:="javax.servlet";v
ersion="4.0.6",com.github.jknack.handlebars.js;uses:="com.github.jkna

ck.handlebars";version="4.0.6"
Built-By: edgar
Tool: Bnd-2.4.1.201501161923
Bundle-Name: Handlebars
Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Build-Jdk: 1.7.0_55
Bundle-Version: 4.0.6
Bnd-LastModified:
1470832695806
Bundle-ManifestVersion: 2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-Description: Logic-less and semantic templates with Java
Bundle-SymbolicName: com.github.jknack.handlebars
Import-Package: com.github.jknack.handlebars.io,javax.servlet,org.antl
r.v4.runtime;version="[4.5,5)",org.antlr.v4.runtime.atn;version="[4.5
,5)",org.antlr.v4.runtime.dfa;version="[4.5,5)",org.antlr.v4.runtime.
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g.apache.commons.lang3;version="[3.1,4)",org.apache.commons.lang3.bui
lder;version="[3.1,4)",org.apache.commons.lang3.math;version="[3.1,4)
",org.apache.commons.lang3.text;version="[3.1,4)",org.apache.commons.
lang3.text.translate;version="[3.1,4)",org.apache.commons.lang3.tuple
;version="[3.1,4)",org.mozilla.javascript,org.mozilla.javascript.tool
s,org.slf4j;version="[1.6,2)"
Archiver-Version: Plexus Archiver

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* /handlebars-4-0-6-jar/META-INF/MANIFEST.MF

1.364 distlib 0.2.9.post0

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==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same

year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes

2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

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1.365 lsof 4.92

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* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dzfs.h
* /lsof-4-92-1-zip/lsof-4.92.1/util.c
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* /lsof-4-92-1-zip/lsof-4.92.1/lib/ckkv.c
* /lsof-4-92-1-zip/lsof-4.92.1/NEW/usage.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dnode3.c
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*/
/*
* GetOpt() -- Local get option
*
* Borrowed from lsof's main.c source file.
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
*/

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTlib.c

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Making and Installing lsof 4

```
**********************************************************************
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu.  Look in pub/tools/unix/lsof.         |
**********************************************************************
```

Contents

Pre-built Lsof Binaries
Making Lsof
- Other Configure Script Options
- Environment Variables
- Security
- Run-time Warnings
- Device Access Warnings
- NFS Blocks
- Caches -- Name and Device
- Raw Sockets
- Other Compile-time Definitions
- The AFSConfig Script
- The Inventory Script
- The Customize Script
- Cautions
- Warranty
- License
- Bug Reports
- The 00FAQ File
- The lsof-l Mailing List
- Field Output Example Scripts
- Field Output C Library

Testing Lsof
Dialect Notes
- AFS
- AIX
- Apple Darwin
- Auspex LFS (no longer maintained)
- BSDI BSD/OS
- DEC OSF/1, Digital UNIX, Tru64 UNIX
- FreeBSD
- HP-UX
- IPv6
- Linux
- NetBSD
- NEXTSTEP and OPENSTEP

OpenBSD
Pyramid DC/OSx and Reliant UNIX (no longer available)
Caldera OpenUNIX
SCO OpenServer
SCO|Caldera UnixWare
Solaris 2.x, 7, 8, 9 and 10
Ultrix (no longer available)
Veritas VxFS and VxVM
User-contributed Dialect Support
Dialects No Longer Supported
Installing Lsof
Setuid-root Lsof Dialects
Setgid Lsof Dialects
Porting lsof 4 to a New UNIX Dialect
Quick Start to Using lsof
Cross-configuring Lsof
Environment Variables Affecting the Configure Script

Pre-built Lsof Binaries

Avoid using pre-built lsof binaries if you can; build your own instead.

I do not support lsof binaries built and packaged by third parties nor lsof binaries built from anything but the latest lsof revision. (See the Bug Reports section for more information on the details of lsof support.)

One important reasone for those support restrictions is that when lsof is built its Configure script tunes lsof to the features available on the building system, often embodied in supporting header files and libraries. If the building system doesn't have support for a particular feature, lsof won't be built to support the feature on any system.

The Veritas VxFS file system is a good example of a feature that requires build-time support.

UNIX dialect version differences -- Solaris 8 versus 9, AIX 4.3.3 vesus 5.2, etc. -- can also render a pre-built lsof binary useless on a different version. So can kernel bit size.

There are so many potential pitfalls to using an lsof binary improperly that I strongly recommend lsof be used only where it is

built.

==========
Making Lsof
==========

$ cd <lsof source directory>
$ ./Configure <your dialect's abbreviation>
$ make

(Consult the 00FAQ and 00XCONFIG files of the lsof distribution
for information about
using make command invocations and environment
variables to override lsof default Makefile strings.)

This lsof distribution can be used with many UNIX dialects. However,
it must be configured specifically for each dialect. Configuration
is done in three ways: 1) by changing definitions in the machine.h
header file of the UNIX dialect of interest; 2) by defining
environment variable values prior to calling Configure (see the
00XCONFIG file, the Environment Variabls and Environment Variables
Affecting the Configure Script sections of this file); and 3) by
running the Configure shell script found in the top level of the
distribution directory.

You may not need to change any machine.h definitions, but you might
want to look at them anyway. Pay particular attention to the
definitions that are discussed in the Security section of this
file. Please read that section.

The Configure script calls three other scripts in the lsof
distribution: AFSConfig; Inventory; and Customize. The
AFSConfig
script is called for selected dialects (AIX, HP-UX, NEXTSTEP, and
Solaris) to locate AFS header files and determine the AFS version.
See The AFSConfig Script section of this file for more information.

The Inventory script checks the completeness of the lsof distribution.
Configure calls Inventory after it has accepted the dialect
abbreviation, but before it configures the top-level directory for
the dialect. See The Inventory Script section of this file for
more information.

Configure calls the Customize script after it has configured the
top-level lsof directory for the declared dialect. Customize helps
you modify some of the important compile-time definitions of
machine.h. See the The Customize Script section.

You should also think about where you will install lsof and its
man page, and whom you will let execute lsof. Please read the
Installing Lsof section of this file for information on installation
considerations.

Once you have inspected the machine.h file for the
 dialect for
which you want to build lsof, and made any changes you need, run
the Configure script, supplying it with the abbreviation for the
dialect. (See the following table.) Configure selects the
appropriate options for the dialect and runs the Mksrc shell script
in the dialect sub-directory to construct the appropriate source
files in the top-level distribution directory.

Configure may also run the MkKernOpts script in the dialect
sub-directory to propagate kernel build options to the dialect
Makefile. This is done for only a few dialects -- e.g., DC/OSx,
and Reliant UNIX.

Configure creates a dialect-specific Makefile. You may want to
inspect or edit this Makefile to make it conform to local conventions.
If you want the Makefile to install lsof and its man page, you will
have to create an appropriate install rule.

Lsof may be configured using UNIX dialect abbreviations from the
following table. Alternative abbreviations are indicated by a
separating `|'. For example, for
 SCO OpenServer you can use either
the ``osr'' or the ``sco'' abbreviation:

 $ Configure osr
   or
 $ Configure sco

Abbreviations UNIX Dialect
------------- ------------

   aix   IBM AIX 5.[23] and 5.3-ML1 using IBM's C Compiler
   aixgcc IBM AIX 5.[12] and 5.3-ML1 using gcc
   darwin Apple Darwin 7.x and 8.x for Power Macintosh systems
   decosf DEC OSF/1, Digital UNIX, Tru64 UNIX 4.0 and 5.1
   digital_unix Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
   du   Digital UNIX, DEC OSF/1, Tru64 UNIX 4.0 and 5.1
   freebsd FreeBSD 4.x, 4.1x, 5.x and [67].x
   hpux HP-UX 11.00, 11.11 and 11.23, using HP's C
   Compiler, both /dev/kmem-based and PSTAT-based
   hpuxgcc HP-UX 11.00, 11.11 and 11.23, using gcc, both

/dev/kmem-based and PSTAT-based
linux Linux 2.1.72 and above for x86-based systems
netbsd NetBSD 1.[456], 2.x and 3.x
next NEXTSTEP 3.[13]
nextstep NEXTSTEP 3.[13]
ns NEXTSTEP 3.[13]
nxt NEXTSTEP 3.[13]
openbsd OpenBSD
2.[89] and 3.[0-9]
openstep OPENSTEP 4.x
os OPENSTEP 4.x
osr SCO OpenServer Release 5.0.6, using the C compiler
from the SCO developer's kit
osrgcc SCO OpenServer Release 5.0.6, using gcc
osr6 SCO Openserver 6.0.0, using the SCO C compiler
sco SCO OpenServer Release 5.0.6, using the C compiler
from the SCO developer's kit
scogcc SCO OpenServer Release 5.0.6, using gcc
solaris Solaris 2.x, 7, 8, 9 and 10 using gcc
solariscc Solaris 2.x, 7, 8, 9 and 10 using Sun's cc
tru64 Tru64 UNIX, DEC OSF/1, Digital UNIX 4.0 and 5.1
unixware SCO|Caldera UnixWare 7.1.4
uw SCO|Caldera UnixWare 7.1.4

If you have an earlier version of a dialect not named in the above list, lsof may still work on your system. I have no way of testing that myself. Try configuring for the named dialect -- e.g., if you're using Solaris 2.1, try configuring for Solaris 2.5.1.

After you have configured lsof for your UNIX dialect and have selected options
via the Customize script (See the The Customize Script section.) , use the make command to build lsof -- e.g.,

$ make

Other Configure Script Options
==========

There are three other useful options to the Configure script besides the dialect abbreviation:

-clean may be specified to remove all traces of
a dialect configuration, including the
Makefile, symbolic links, and library files.

-h may be specified to obtain a list of

-help Configure options, including dialect
abbreviations.

-n may be specified to stop the Configure
script from calling the Customize and
Inventory scripts.

Caution: -n also suppresses the AFSConfig
step.

Environment Variables
=====================

Lsof configuration, building, and execution may be affected by
environment variable settings. See the Definitions That Affect
Compilation section in the 00PORTING file, the General Environment
Variables section in the 00XCONFIG
file, the Dialect-Specific
Environment Variables section in the 00XCONFIG file, and the
Environment Variables Affecting the Configure Script section of
this file for more information.

Note in the General Environment Variables section of the 00XCONFIG
file that there are five environment variables that can be used to
pre-define values in lsof's -v output: LSOF_BLDCMT, LSOF_HOST,
LSOF_LOGNAME, LSOF_SYSINFO, and LSOF_USER.

Security
========

If the symbol HASSECURITY is defined, a security mode is enabled,
and lsof will allow only the root user to list all open files.
Non-root users may list only open files whose processes have the
same user ID as the real user ID of the lsof process (the one that
its user logged on with).

However, if HASNOSOCKSECURITY is also defined, anyone may list
anyone else's open socket files, provided their listing is enabled
with the "-i" option.

Lsof is distributed with the security mode disabled -- HASSECURITY
is not defined. (When HASSECURITY is not
defined, the definition
of HASNOSOCKSECURITY has no meaning.) You can enable the security
mode by defining HASSECURITY in the Makefile or in the machine.h

header file for the specific dialect you're using -- e.g.
dialects/aix/machine.h.

The Customize script, run by Configure when it has finished its
work, gives you the opportunity to define HASSECURITY and
HASNOSOCKSECURITY. (See the The Customize Script section.)

The lsof -h output indicates the state HASSECURITY and HASNOSOCKSECURITY
had when lsof was built, reporting:

"Only root can list all files;"
if HASSECURITY was defined and HASNOSOCKSECURITY wasn't
defined;

"Only root can list all files, but anyone can list socket files."
if HASSECURITY and HASNOSOCKSECURITY were both defined;

"Anyone can list all files;"
if HASSECURITY wasn't defined. (The definition of
HASNOSOCKSECURITY doesn't matter when HASSECURITY isn't
defined.)

You should carefully consider the implications of using the default
security mode.
When lsof is compiled in the absence of the
HASSECURITY definition, anyone who can execute lsof may be able to
see the presence of all open files. This may allow the lsof user
to observe open files -- e.g., log files used to track intrusions
-- whose presence you would rather not disclose.

As distributed, lsof writes a user-readable and user-writable device
cache file in the home directory of the real user ID executing
lsof. There are other options for constructing the device cache file
path, and they each have security implications.

The 00DCACHE file in the lsof distribution discusses device cache
file path construction in great detail. It tells how to disable
the various device cache file path options, or how to disable the
entire device cache file feature by removing the HASDCACHE definition
from the dialect's machine.h file. There is also information on
the device cache file feature in the 00FAQ file. (The 00DCACHE
and 00FAQ files are part of the lsof distribution package.)

The
Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the compile-time options
related to the device cache file. (See The Customize Script
section.)

Since lsof may need setgid or setuid-root permission (See the Setgid
Lsof Dialects and Setuid-root Lsof Dialects sections.), its security
should always be viewed with skepticism. Lest the setgid and
setuid-root permissions allow lsof to read kernel name list or
memory files, declared with the -k and -m options, that the lsof
user can't normally access, lsof uses access(2) to establish its
real user's authority to read such files when it can't surrender
its power before opening them. This change was added at the
suggestion of Tim Ramsey.

Lsof surrenders setgid permission on most dialects when it has
gained access to the kernel's memory devices. There are exceptions
to this rule, and some lsof implementations need to run setuid-root.
(The Setgid Lsof Dialects and Setuid-root Lsof
Dialects sections
contains a list of lsof implementations and the permissions
recommended in the distribution's Makefiles.)

The surrendering of setgid permission is controlled by the WILLDROPGID
definition in the dialect machine.h header files.

In the end you must judge for yourself and your installation the
risks that lsof presents and restrict access to it according to
your circumstances and judgement.

Run-time Warnings
==========

Lsof can issue warning messages when it runs -- e.g., about the
state of the device cache file, about an inability to access an
NFS file system, etc. Issuance of warnings are enabled by default
in the lsof distribution.

Issuance or warnings may be disabled by default by defining
WARNINGSTATE in the dialect's machine.h. The Customize script may
also be used to change the default warning message issuance state.
(See The Customize Script section.)

The ``-w'' option description of the ``-h'' option (help) output
will indicate the default warning
issuance state. Whatever the
state may be, it can be reversed with ``-w''.

Device Access Warnings
==========

When lsof encounters a /dev (or /devices) directory, one of its
sub-directories, or one of their files that it cannot access with
opendir(3) or stat(2), it issues a warning message and continues.
Lsof will be more likely to issue such a warning when it has been
installed with setgid(<some group name>) permission; it won't have
trouble if it has been installed with setuid(root) permission or
is being run under the root login.

The lsof caller can inhibit or enable the warning with the -w
option, depending on the issuance state of run-time warnings. (See
the Run-time Warnings section.)

The warning messages do not appear when lsof obtains device
information from a device cache file that it has built and believes
to be current or when warning message issuance is disabled by
default. (See the "Caches -- Name and Device" section for more
information on the device
cache file.)

The lsof builder can inhibit the warning by disabling the definition
of WARNDEVACCESS in the dialect's machine.h or disable all warnings
by defining WARNINGSTATE. WARNDEVACCESS is defined by default for
most dialects. However, some dialects have some device directory
elements that are private -- e.g., HP-UX -- and it is more convenient
for the lsof user if warning messages about them are inhibited.

Output from lsof's -h option indicates the status of WARNDEVACCESS.
If it was defined when lsof was compiled, this message will appear:

  /dev warnings = enabled

If WARNDEVACCESS was not defined when lsof was compiled, this
message will appear instead:

  /dev warnings = disabled

The Customize script, run by Configure after it has finished its
work, gives you the opportunity to change the WARNDEVACCESS
definition. (See The Customize Script section.)

NFS Blocks
==========

Lsof is susceptible to NFS blocks when it tries to lstat() mounted
file systems and when it does

further processing -- lstat() and
readlink() -- on its optional file and file system arguments.

Lsof tries to avoid being stopped completely by NFS blocks by doing the lstat() and readlink() functions in a child process, which returns the function response via a pipe. The lsof parent limits the wait for data to arrive in the pipe with a SIGALRM, and, if the alarm trips, terminates the child process with a SIGINT and a SIGKILL.

This is as reliable and portable a method for breaking NFS deadlocks as I have found, although it still fails under some combinations of NFS version, UNIX dialect, and NFS file system mount options. It generally succeeds when the "intr" or "soft" mount options are used; it generally fails when the "hard" mount option is used.

When lsof cannot kill the child process, a second timeout causes it to stop waiting for the killed child to complete. While the second timeout allows lsof to complete, it may leave behind a hung child process. Unless warnings are inhibited
by default or with
the -w option, lsof reports the possible hung child.

NFS block handling was updated with suggestions made by Andreas Stolcke. Andreas suggested using the alternate device numbers that appear in the mount tables of some dialects when it is not possible to stat(2) the mount points.

The -b option was added to direct lsof to avoid the stat(2) and readlink(2) calls that might block on NFS mount points and always use the alternate device numbers. If warning message issuance is enabled and you don't want warning messages about what lsof is doing, use the -w option, too.

The -O option directs lsof to avoid doing the potentially blocking operations in child processes. Instead, when -O is specified, lsof does them directly. While this consumes far less system overhead, it can cause lsof to hang, so I advise you to use -O sparingly.

Caches -- Name and Device
==========

Robert Ehrlich suggested that lsof obtain path name components for open files
from the kernel's name cache. Where possible, lsof
dialect implementations do that. The -C option inhibits kernel name cache examination.

Since AFS apparently does not use the kernel's name cache, where lsof supports AFS it is unable to identify AFS files with path name components.

Robert also suggested that lsof cache the information it obtains via stat(2) for nodes in /dev (or /devices) to reduce subsequent running time. Lsof does that, too.

In the default distribution the device cache file is stored in .lsof_hostname, mode 0600, in the home directory of the login of the user ID that executes lsof. The suffix, hostname, is the first component of the host's name returned by gethostname(2). If lsof is executed by a user ID whose home directory is NFS-mounted from several hosts, the user ID's home directory may collect several device cache files, one for each host from which it was executed.

Lsof senses accidental or malicious damage to the device cache file with extensive integrity
checks, including the use of a 16 bit CRC.
It also tries to sense changes in /dev (or /devices) that indicate the device cache file is out of date.

There are other options for forming the device cache file path. Methods the lsof builder can use to control and employ them are documented in the separate 00DCACHE file of the lsof distribution.

Raw Sockets
==========

On many UNIX systems raw sockets use a separate network control block structure. Display of files for applications using raw sockets -- ping, using ICMP, for example -- need special support for displaying their information. This support is so dialect-specific and information to provide it so difficult to find that not all dialect revisions of lsof handle raw sockets completely.

Other Compile-time Definitions
==============================

The machine.h and dlsof.h header files for each dialect contains definitions that affect the compilation of lsof. Check the Definitions That Affect Compilation section of the
00PORTING file
of the lsof distribution for their descriptions. (Also see The Customize Script section.)

The AFSConfig Script

Lsof supports AFS on some combinations of UNIX dialect and AFS version. See the AFS section of this document for a list of supported combinations.

When configuring for dialects where AFS is supported, the Configure script calls the AFSConfig script to determine the location of AFS header files and the AFS version. Configure will not call AFSConfig, even for the selected dialects, unless the file /usr/vice/etc/ThisCell exists.

The AFS header file location is recorded in the AFSHeaders file; version, AFSVersion. Once these values have been recorded, Configure can be told to skip the calling of AFSConfig by specifying its (Configure's) -n option.

The Inventory Script

The lsof distribution contains a script, called Inventory, that checks the distribution for completeness. It uses the file 00MANIFEST in the distribution
as a reference point.

After the Configure script has accepted the dialect abbreviation, it normally calls the Inventory script to make sure the distribution is complete.

After Inventory has run, it creates the file ".ck00MAN" in the top-level directory to record for itself the fact that the inventory has been check. Should Inventory be called again, it senses this file and asks the caller if another check is in order, or if the check should be skipped.

The -n option may be supplied to Configure to make it bypass the calling of the Inventory script. (The option also causes Configure to avoid calling the Customize script.)

The lsof power user may want to define (touch) the file ".neverInv". Configure avoids calling the Inventory script when ".neverInv" exists.

The Customize Script
==========

Normally when the Configure script has finished its work, it calls another shell script in the lsof distribution called Customize. (You can tell Configure to bypass Customize with its -n option.)

Customize leads you through the specification of these important compile-time definitions for the dialect's machine.h header file:

HASDCACHE device cache file control
HASENVDC device cache file environment variable name
HASPERSDC personal device cache file path format
HASPERSDCPATH name of environment variable that provides an additional component of the personal device cache file path
HASSYSDC system-wide device cache file path
HASKERNIDCK the build-time to run-time kernel identity check
HASSECURITY the security option
HASNOSOCKSECURITY the open socket listing option whe HASSECURITY is defined
WARNDEVACCESS /dev (or /devices) warning message control
WARNINGSTATE warning message issuance state

The Customize script accompanies its prompting for entry of new values for these definitions with brief descriptions of each of them. More information on these definitions may be found in this file or in the 00DCACHE and 00FAQ files of the lsof distribution.

You don't need to run Customize after Configure. You can run it later or you can edit machine.h directly.

The -n option may be supplied to Configure to make it bypass the calling of the Customize script. (The option also causes Configure to avoid calling the Inventory script.)

The lsof power user may want to define (touch) the file ".neverCust". Configure avoids calling the Customize script when ".neverCust" exists.

Customize CAUTION: the Customize script works best when it is

applied to a newly configured lsof source base -- i.e., the machine.h
header file has not been previously modified by the Customize
script. If you have previously configured lsof, and want to rerun
the Customize script, I recommend you clean out the previous
configuration and create a new one:

 $ Configure -clean
 $ Configure <dialect_abbreviation>
 ...
 Customize in response to the Customize script prompts.

Cautions
========

Lsof is a tool that
 is closely tied to the UNIX operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version, and even within a version as vendor patches are applied.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER. VENDOR PATCHES INFLUENCE THE VERSION IDENTITY.

On some UNIX dialects lsof versions may be even more restricted by
architecture type.

The bottom line is use lsof where you built it. If you intend to
use a common lsof binary on multiple systems, make sure all systems
run exactly the same OS version and have exactly the same patches.

Warranty
========

Lsof is provided as-is without any warranty of any kind, either
expressed or implied, including, but not limited to, the implied
warranties of merchantability and fitness for a particular purpose.
The entire risk as to the quality and performance of lsof is with
you. Should lsof prove defective, you assume the cost
 of all
necessary servicing, repair, or correction.

License
=======

Lsof has no license. Its use and distribution are subject to these

terms and conditions, found in each lsof source file. (The copyright year in or format of the notice may vary slightly.)

```
/*
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
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 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

Bug Reports
==========

Now that the obligatory disclaimer is out of the way, let me hasten to add that I accept lsof bug reports and try hard to respond to them. I will also consider and discuss requests for new features, ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF TO THE UNIX DIALECT OR DIALECT OPTION VENDOR.

At worst such bug reports will confuse the vendor; at best, the vendor will forward the bug report to me.

PLEASE DON'T SEND BUG REPORTS ABOUT LSOF BINARIES BUILT OR DISTRIBUTED

BY SOMEONE ELSE, BECAUSE I CAN'T SUPPORT THEM.

Before you send me a bug report,
please do these things:

* Make sure you try the latest lsof revision.

  + Download the latest revision from:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

  + Verify the signatures of what you have downloaded;

  + While connected to lsof.itap.purdue.edu, check for patches:

  ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/patches

  + If patches exist, install them in the latest revision
  you just downloaded. Then build the latest revision and
  see if it fixes your bug.

* If you're having trouble compiling lsof with gcc, try the
  UNIX dialect vendor's compiler. I don't have access to gcc on
  all test systems, so my support for it is hit-and-miss, and so
  is my ability to respond to gcc compilation problem reports.

* Check the lsof frequently asked questions file, 00FAQ,
  to see if there's a question and answer relevant to your
  problem.

* Make sure you're running the lsof you think you are
by
  checking the path to it with which(1). When in doubt, use an
  absolute path to lsof. Make sure that lsof binary has
  sufficient permissions to do what you ask, including internal
  permissions given it (e.g., restrictions on what files lsof may
  report for whom) during its build.

When you send a bug report, make sure you include output from your
running of lsof's Configure script. If you were able to compile a
running lsof, please also include:

* Output from which(1) that shows the absolute path to the
  lsof binary in question;

* Output from running lsof with its -h and -v options at
  lsof's absolute path;

* Output from "ls -l" directed to lsof's absolute path.

If you weren't able to compile a running lsof, please send me: the compiler error output; identification of the lsof revision you're using (contents of the lsof version.c file); identification of your system (full uname output or output from whatever other tool identifies the system); and compiler identification (e.g., gcc -v output).

Either set of output will help me understand how lsof was configured and what UNIX dialect and lsof revision is involved.

Please send all bug reports, requests, etc. to me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

The 00FAQ File

The lsof distribution contains an extensive frequently asked questions file on lsof features and problems. I recommend you consult it before sending me e-mail. Use your favorite editor or pager to search 00FAQ -- e.g., supplying as a search argument some fixed text from an lsof error message.

The lsof-l Mailing List

Information about lsof, including notices about the availability of new revisions, may be found in mailings of the lsof-l listserv. For more information about it, including instructions on how to subscribe, read the 00LSOF-L file of the lsof distribution.

Field Output Example Scripts

Example AWK and Perl 4 or 5 scripts for post-processing lsof field output are locate in the scripts sub-directory of the lsof distribution. The scripts sub-directory contains a 00README file with information about the scripts.

Field Output C Library

The lsof test suite (See "Testing Lsof."), checks basic lsof operations using field output. The test suite has its own library of C functions for common test program operations, including processing of field output. The library or selections of its functions could be adapted for use by C programs that want to process lsof field output. See the library in the file LTlib.c in the tests/ sub-directory

Testing Lsof
============

Lsof has an automated test suite in the tests/ sub-directory that can be used to test some basic lsof features -- once lsof has been configured and made. Tests are arranged in three groups: basic tests that
should run on all dialects; standard tests that should run on all dialects; and optional tests that may not run on all dialects or may need special resources to run. See 00TEST for more information.)

CAUTION!!! Before you attempt to use the test suite make sure that the lsof you want to test can access the necessary kernel resources -- e.g., /dev/mem, /dev/kmem, /proc, etc. Usually you want to test the lsof you just built, so this is an important check. (See 00TEST.)

To run the basic and standard tests, using the lsof in the parent directory of tests/, do this:

```
$ cd tests
$ make test
  or $ make std
  or $ make standard
```

The basic and standard tests may be run as silently as possible, using the lsof in the parent directory of tests/, with:

```
$ cd tests
$ make auto
```

This is the "automatic" test mode, designed for use by scripts that build lsof. The caller is expected to test the make exit code to determine if the tests succeeded. The caller should divert standard output
and standard error to /dev/null to suppress make's error exit message.

The optional tests may be run, using the lsof in the parent directory
of tests/, with:

```
 $ cd tests
 $ make opt
   or $ make optional
```

It's possible to excute individual tests, too. See the 00TEST file
of this distribution for more informaiton on the tests, what they
do, and how to run and possibly customize each test.

It's possible to run the tests, using an lsof other than the one
in the parent directory of /tests, too. See 00TEST for information
about using the LT_LSOF_PATH environment variable to do that.

==========
Dialect Notes
==========

AFS
===

Lsof recognizes AFS files on the following combinations of UNIX
dialect and AFS versions:

```
 AIX 4.1.4 (AFS 3.4a)
 Linux 1.2.13 (AFS 3.3)
 NEXTSTEP 3.2 (AFS 3.3) (untested on recent lsof revisions)
 Solaris 2.6 (AFS 3.4a)
 Ultrix 4.2 RISC (AFS 3.2b) (no longer available)
```

Lsof has not been tested under other combinations -- e.g. HP-UX
10.10 and AFS 3.4a
 -- and probably won't even compile there. Often
when a UNIX dialect version or AFS version changes, the new header
files come into conflict, causing compiler objections.

AIX
===

Specify the aix Configure abbreviation for AIX 4.1.[45], 4.2[.1],
4.3[.123], 5L, and 5.[123].

Specify aixgcc on AIX above 4.1 to use the gcc compiler. (Gcc can't be

used to compile lsof on AIX 4.1 and below because of kernel structure alignment differences between it and xlc.) Gcc results sometimes depend on the version of the gcc compiler that is used.

Compilation of lsof with gcc on AIX 4.3[.123], 5L, and 5.[123] has been sparsely tested with varying degrees of success: it has been reported to succeed on AIX 4.3.3 and 32 bit Power AIX 5.1; to fail on ia64 AIX 5.1 and 64 bit Power AIX 5.1; and to succeed on 32 and 64 bit Power AIX 5.2. Lsof compilation with gcc hasn't been tested on AIX 5.3.

At revision 4.61 and above lsof is configured and built to match the bit size of the kernel of Power architecture
AIX 5.1 systems. Lsof
binaries built for 32 and 64 bit kernels are not interchangeable. See 00FAQ for more information.

The Configure script uses /usr/bin/oslevel to determine the AIX version for AIX less than 5 and ``uname -rv'' for AIX 5 and higher. If /usr/bin/oslevel isn't executable on AIX less than 5, the Configure script issues a warning message and uses ``uname -rv'' to determine the AIX version.

When Configure must use ``uname -rv'' on AIX less than 5 to determine the AIX version, the result will lack a correct third component -- e.g., the `4' of ``4.1.4''. If your AIX less than 5 system lacks lacks an executable oslevel, I suggest you edit the Configure-produced Makefile and complete the _AIXV definition in the CFGF string.

By default lsof avoids using the kernel's readx() function, causing it to be unable to report information on some text and library file references. The ``-X'' option allows the lsof user to ask for the information readx() supplies.

Lsof avoids
readx() to avoid the possibility of triggering a kernel
problem, known as the Stale Segment ID kernel bug. Kevin Ruderman reported this bug to me. The bug shows up when the kernel's dir_search() function hangs, hanging the application process that called it so completely that the application process can neither be killed nor stopped. The hang is the consequence of another process (perhaps lsof) making legitimate use of the kernel's readx() function to access the kernel memory that dir_search() is examining. IBM has indicated they have no plans to fix the bug.

A fuller discussion of this bug may be found in the 00FAQ file of the lsof distribution. There you will find a description of the Stale Segment ID bug, the APAR on it, and a discussion of the sequence of events that exposes it.

I added the ``-X" function so you can tell lsof to use readx(),
but if you use ``-X", you should be alert to its possibly serious
side effects. Although readx() is normally disabled, its state
 is
controlled with the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE
definitions in dialects/aix/machine.h, and you can change its
default state by changing those definitions. You can also change
HASXOPT_ROOT via the Customize script.

You can also compile lsof with readx() use permanently enabled or
disabled -- see the comments about the definitions in the
dialects/aix/machine.h header file. You may want to permanently
disable lsof's use of readx() if you plan to make lsof publicly
executable. You can also restrict -X to processes whose real UID
is root by defining HASXOPT_ROOT.

I have never seen lsof cause the Stale Segment ID bug to occur and
haven't had a report that it has, but I believe there is a possibility
it could.

AFS support for AIX was added with help help from Bob Cook and Jan
Tax who provided test systems.

Henry Grebler and David J. Wilson helped with lsof for AIX 4.2.

Bill Pemberton provided an AIX 4.3 test system. Andrew Kephart
and Tom Weaver provided AIX 4.3 technical
 assistance. Niklas
Edmundsson did 4.3.1 testing. Doug Crabill provided an AIX 4.3.2
test system. Jeff W. Stewart provided an AIX 4.3.3 test system.

The SMT file type for AIX 4.1.[45], 4.2[.1], and 4.3[.12] is my
fabrication. See the 00FAQ file more information on it.

Loc Le and Nasser Momtaheni of IBM provided test systems for AIX 5L and
5.1. Lsof for AIX 5L and 5.1 needs setuid-root permission to process
the -X option on systems whose architecture type is ia64.

Dale Talcott of Purdue provided AIX 5.1 and 5.2 test systems. Dale and
John Jackson of Purdue provided an AIX 5.3 test system.

Apple Darwin
==========

The Apple Darwin port was provided by Allan Nathanson for version
1.2. Allan also arranged for access to a test system for maintenance

and regression testing. Dale Talcott provided a test system, too.

Allan supplied patches for updates to 1.4, 5.x, 6.x, 7.x and 8.x.

BSDI BSD/OS
==========

As of lsof revision 4.77 support for BSDI BSD/OS has been
discontinued.
  Lsof revision 4.76 with BSDI BSD/OS support may be found
on lsof.itap.purdue.edu in pub/tools/unix/lsof/src.

DEC OSF/1, Digital UNIX, Tru64 UNIX
==========

Robert Benites, Dean Brock, Angel Li, Dwight McKay, Berkley Shands,
Ron Young and Steve Wilson have kindly provided test systems.
Jeffrey Mogul has provided technical assistance. Dave Morrison
and Lawrence MacIntyre did Digital UNIX V3.2 testing.

Lsof supports the ADVFS/MSFS layered file system product. Lsof
can locate all the open files of an ADVFS/MSFS file system when
its path is specified, provided the file system is listed in
/etc/fstab with an ``advfs'' type. (This /etc/fstab caveat applies
only to Digital UNIX 2.0.) At Digital UNIX 4.0 and Tru64 UNIX,
using code provided by David Brock, lsof 4.20 and above can locate
ADVFS file paths.

Testing of lsof on DEC OSF/1 and Digital UNIX 4.0 ended with lsof
revision 4.74. Hence, the lsof documentation has dropped the claim
that it works there.
  For a distribution of lsof 4.74 that was tested
on DEC OSF/1 and Digital UNIX 4.0, check pub/tools/unix/lsof/OLD/src
on the lsof ftp home, lsof.itap.purdue.edu.

Lsof revisions past 4.74 have only been tested on Tru64 UNIX 5.1.

FreeBSD
=======

Bill Bormann of Purdue University provided access to several FreeBSD
test systems. Ade Barkah, John Clear, Ralph Forsythe, Michael
Haro, Kurt Jaeger, and William McVey have also provided FreeBSD
test systems.

The FreeBSD distribution header files are augmented by header files
in the dialects/freebsd/include directory.

Larry Rosenman maintains the lsof FreeBSD port package.

HP-UX
=====

Lsof has two HP-UX bases: /dev/kmem for HP-UX 11.0 and earlier;
and PSTAT for HP-UX 11.11 and later. The lsof Configure script
will pick the appropriate base.

To use the CCITT x.25 socket support for HP-UX, you must have the
x.25 header files in /etc/conf/x25

Pasi Kaara helped with the HP-UX port, especially with its CCITT
x.25 socket support.

Richard
Allen provided HP-UX 10.x and 11.x test systems, as did
Mark Bixby, and Elias Halldor Agustsson. Marc Winkler helped test
the 10.20 port. Richard J. Rauenzahn provided a 64 bit HP-UX 11
test system and an HP-UX 11.11 development system.

AFS support for HP-UX was added thanks to help from Chaskiel Moses
Grundman, who provided a test system.

The /dev/kmem-based HP-UX 11.00 support is extremely fragile. It
depends on privately developed kernel structure definitions. (See
.../dialects/hpux/hpux11 for the header files making the definitions.)
Those header files and their definitions will not be updated by
HP-UX 11.00 patches, making it likely that any patch changing a
kernel structure critical to lsof will break lsof in some way.

It's possible to build a 64 bit lsof for 64 bit HP-UX 11.00 with
gcc, but you must have a gcc compiler capable of producing 64 bit
executables. See the 00FAQ file for more information.

The PSTAT-based lsof for HP-UX 11.11 and later is much more solid.
I
am indebted to the vision of HP for providing an lsof kernel API
through the PSTAT implementation. Specifically I appreciate the
help of HP staff members Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada that made PSTAT-based HP-UX lsof
possible.

IPv6
====

Lsof has IPv6 support that has been tested for these UNIX dialects:
AIX 4.3.x; Apple Darwin 5.[12] and 6.0; the INRIA and KAME FreeBSD IPv6
implementations; PSTAT-based HP-UX; /proc-based Linux; the INRIA and
KAME NetBSD implementations; and Solaris 8 and 9. Lsof has IPv6
support that hasn't been tested for: OpenBSD (KAME); OpenUNIX 8; Tru64
Unix 5.[01]; and UnixWare 7.1.[34].

Please let me know if your UNIX dialect has IPv6 support and I'll
see if it can be supported by lsof.

Linux
=====

Tim Korb, Steve Logue, Joseph J. Nuspl Jr., and Jonathan Sergent
have provided Linux test systems.

Michael Shields helped add and test automatic handling of ELF/COFF
form names in /System.map, Marty Leisner and Keith
Parks have helped
test many lsof revisions. Marty has provided valuable suggestions,
Linux hints, and code, too.

The 00FAQ file gives some Linux tips, including information on
coping with system map file problems.

To determine the state of the Linux 2.1.x C library lseek() function,
the lsof Configure script runs a test program that must have
permission to read /dev/kmem. The test determines if the lseek()
function properly handles kernel offsets, which appear to be negative
because their high order bit is set. If the lseek() test reveals
a faulty lseek(), Configure activates the use of a private lseek()
function for kernel offset positioning. See the Linux problems
section of the 00FAQ file of the lsof distribution for more
information.

NetBSD
======

Greg Earle and Paul Kranenburg have assisted with the NetBSD ports.
Paul has provided test systems. Ray Phillips provided a NetBSA
Alpha test system. Andrew Brown also provided a test system.

The NetBSD dialect version of lsof

is compiled using the dialect
sources it shares with OpenBSD in the n+obsd dialect sub-directory.

NEXTSTEP and OPENSTEP
==========

Virtual memory header files that allow lsof to display text references
were derived from the contents of /usr/include/vm of NEXTSTEP 2.0.
NeXT did not ship the virtual memory header files with other NEXTSTEP
or OPENSTEP versions.

You may use the RC_FLAGS environment variable to declare compiler
options outside the Makefile. A common use of this variable is to
define the architecture types to be included in a "fat" executable.
See the comments in dialects/next/Makefile for an example.

OpenBSD
=======

David Mazieres has provided OpenBSD test systems. The OpenBSD
dialect version of lsof is compiled using the dialect sources it
shares with NetBSD in the n+obsd dialect sub-directory.

Kenneth Stailey has provided OpenBSD testing and advice.

John Dzubera (Zube) reports, "lsof 4.33 compiles and runs on OpenBSD
2.3 for the pmax architecture
(decstation 3100)."

I have not tested lsof on OpenBSD 3.8, but David Mazieres reports
revision 4.76 worked on OpenBSD 3.8.

Pyramid DC/OSx and Reliant UNIX
==========

As of lsof revision 4.52 support for all Pyramid dialects has been
discontinued. Lsof revision 4.51 with Pyramid support may be
obtained upon request. Send the request to abe@purdue.edu.

These two UNIX dialects are very similar and share dialect-specific
source files from the pyramid sub-directory.

The Reliant Unix Pyramid C compiler issues warning messages that
I haven't found a convenient way to suppress. You can ignore
warning messages about casts and conversions that lose bits. The

message "warning: undefining __STDC__" is intentionally caused by
the lsof MkKernOpts configuration script to suppress warning messages
about cast and conversion problems in standard system header files,
such as <stdio.h> and <string.h>.

Bruce Beare and Kevin Smith provided test systems.

Caldera OpenUNIX
================

Larry
 Rosenman provided an OpenUNIX 8 test system. Matthew Thurmaier
provided technical assistance, along with these people from Caldera:
Jack Craig, Robert Lipe, and Bela Lubkin.

Robert Lipe supplied changes to lsof for OpenUNIX 8.0.1. Those
changes were also incorporated in UnixWare 7.1.3 when it became
the release name for OpenUNIX 8.0.1.

Support for lsof on OpenUNIX ended at lsof revision 4.74. The last
lsof revision, 4.74, tested on OpenUNIX, may be found at the lsof
"home" ftp site, lsof.itap.purdue.edu, in pub/tools/unix/lsof/OLD/src.

SCO OpenServer
==============

Dion Johnson, Bela Lubkin, and Nathan Peterson of SCO gave me copies
of SCO OpenServer and the SCO OpenServer Development System 3.0
and provided technical advice for the lsof port.

Hugh Dickins, Bela Lubkin, Craig B. Olofson, and Nathan Peterson
provided version 5.0 and gave technical advice for porting lsof to
it. Bela provided the 5.0.4 changes. D. Chris Daniels provided
a 5.0.4 test system,
 Lee Penn provided one for 5.0.5, and John
Dubois for 5.0.6.

The <netdb.h> header file was accidentally omitted from some SCO
OpenServer Development System releases. The Configure script will
sense its absence and substitute an equivalent from the BSD
distribution. The BSD <netdb.h> and the <sys/cdefs.h> header file
it includes are located in the dialects/os/include sub-directory
tree.

To compile lsof from its distribution sources you must have the
TCP/IP and NSF headers in /usr/include. While those are optional

OpenServer packages, I have access to no system that doesn't have
them, so I'm unable to build lsof for such a configuration. However,
it should be possible to modify the lsof Configure script and
sources so lsof would compile and work without those optional
packages.

If you have an OpenServer system configured without the TCP/IP and
NFS packages, and want to tackle the job of building lsof for it,
contact me via e-mail at <abe@purdue.edu>. I'll identify the
Configure
script, header file, and source file changes you will
need to make. (Caution: this is not a simple task, or I would have
already done it.)

The optional osrgcc and scogcc Configure abbreviations construct
Makefiles for compiling lsof with gcc.

The UnixWare 7.1.4 sources are used for OpenServer Release 6.0.0.
Hence there is a separate Configure abbreviation for it, "osr6".
Richard of SCO provided a test system and technical assistance.

SCO|Caldera UnixWare
===========

D. Chris Daniels, John Hughes, Ken Laing, Andrew Merril, Lee Penn, and
Matthew Thurmaier provided test systems. Bela Lubkin provided
technical assistance. Larry Rosenman provided 7.1.[34] test systems.

Solaris 2.x, 7, 8, 9 and 10
==========================

SEE THE CAUTIONS SECTION OF THIS DOCUMENT.

The latest Solaris revision of lsof 4 might work under Solaris
2.[1-4] and 2.5[.1] and 7 but hasn't been tested there. I have no
test systems for those Solaris versions.

Lsof will compile with gcc and the Sun C compiler
under Solaris.
If you want to use the Sun compiler, use the solariscc Configure
abbreviation. If you use a gcc version less than 2.8 on Solaris,
make sure the gcc-specific includes have been updated for your
version of Solaris -- i.e., run the gcc fixincludes script.

Solaris 7, 8, 9 and 10 support for 64 bit kernels depends on a Sun
WorkShop or Forte C compiler version that supports the "-xarch=v9"

flag -- usually 5.0 or greater. Gcc versions 2.95 and above *may* be configured and built for 64 bit support, but it takes some extra work, the resulting compiler may be fragile, and the gcc developers discourage it. I've built 64 bit capable gcc compilers for Solaris 7, 8 and 9 from gcc versions 2.95 through 3.0.1 and produced working lsof executables with them. More information on 64 bit gcc for Solaris may be found in the 00FAQ file.

Solaris 10 ZFS support is questionable, because Sun does not distribute the ZFS kernel structure definition header files. The lsof Configure script
and source code use some risky work-arounds. ZFS file system support was made possible with help from Horst Scheuermann.

Dave Curry and Steve Kirsch provided resources for Solaris 2.x ports. Casper Dik and Gerry Singleton consulted and provided valuable assistance.

Henry Katz, Joseph Kowalski, Charles Stephens, Mike Sullivan, and Mike Tracy provided technical assistance.

AFS support was added to Solaris lsof with help from Curt Freeland, Heidi Hornstein, Michael L. Lewis, Terry McCoy, Phillip Moore, and Sushila R. Subramanian.

Casper Dik provided valuable assistance for the Solaris 8 support.

Sun has graciously provided me access to BETA versions of Solaris 2.5, 2.6, 7, 8, and 9.

John Dzubera provided Solaris 7 and 8 test systems.

Mike Miscevic provided Solaris 10 test systems.

Ultrix
======

As of lsof revision 4.52 support for Ultrix is no longer available, because I no longer have an Ultrix test system.

Terry Friedrichsen, Dwight McKay, and Jeffrey Mogul helped me with
this port.

DECnet support was added to Ultrix lsof with the help of John Beacom, who kindly provided a test system. The Configure script decides that DECnet support is available if /usr/lib/libdnet.a and

/usr/include/netdnet/dn.h exist and are readable.

Veritas VxFS and VxVM
==========

Lsof supports some versions of Veritas VxFS and VxVM on some UNIX dialects. Consult the lsof Configure script for the specific dialect, and consult the lsof dialect-specific source files for the UNIX dialect of interest. Veritas support will usually be found in a source file named dnode[1-9].c.

Since Veritas rarely has a version number that can be extracted with shell commands, lsof doesn't use it. Instead, when lsof supports Veritas, the Configure script will form compile-time definitions starting with HASVXFS. Check the lsof 00PORTING documentation file for more information.

Lsof Veritas support requires that the supporting Veritas header files be installed -- e.g., in /usr/include/sys/fs.
(The location
will depend in the dialect's header file conventions.)

Some information on lsof support for Veritas extensions may be found in the lsof 00DIST file. (The ChangeLog file points to 00DIST.)

Chris Kordish and Andy Thomas have provided Solaris VxFS test systems.

==========
User-contributed Dialect Support
==========

There are some user-contributed dialect versions of lsof; more information on them can be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Check the 00INDEX file there for details.

==========
Dialects No Longer Supported
==========

Because I don't have access to test systems, these UNIX dialects

are no longer supported by lsof:

CDC EP/IX
/dev/kmem-based Linux
MIPS RISC/os
Motorola V/88
Pyramid DC/OSx
Pyramid Reliant UNIX
Sequent DYNIX
SGI IRIX
SunOS 4.x
Ultrix
UnixWare below 7.0

Remnants of the support lsof once provided for these dialects may
be found in:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/dialects

==========
Installing Lsof
==========

The distributed Makefiles do not have actions that will install lsof. I've come to the conclusion there is no standard for installing lsof or its man page, so I no longer distribute make rules for installing them. You should adjust the Makefile for your local preferences.

The Makefile does have an install rule that will cause lsof to compile by virtue of its dependency clause. Some Makefiles also have a dependency that causes the production of a man page that is ready to install. However, the actions of the install rule will not cause the lsof executable or its man page to be installed in any UNIX system-wide directory.

Instead, after the compilation and optional man page production are completed, the install rule will produce a brief description of what actions you might add to the install rule. The description will suggest the possible modes, ownerships, permissions, and destinations your install rule might employ to install the lsof executable and man page.

As you form your install rule, keep in mind that lsof usually needs some type of special permission to do its job. That may be permission

to read memory devices such as /dev/kmem, /dev/mem, or /dev/swap,
or it may be authorization to read entries in the /proc file system.

Memory device access can usually be provided by setting the modes
of the lsof executable so that it's effective group identifier when
it runs is the same as the group that has permission to read the
memory devices -- i.e., it is setgid-group. The privileged group
is usually kmem, sys, or system.

Don't overlook using ACLs -- e.g., on AIX or Solaris 8 -- to give
lsof permission to access memory devices. ACLs, coupled to a
separate group like kmem, can be safer than giving lsof setgid
authorization to a commonly used system group.

When lsof needs to read /proc file system entries, it must be
installed
with modes that make its effective user identifier root
when it runs -- i.e., it must be setuid-root. If lsof must be
installed setuid-root (only the AIX 5L, PSTAT-based HPUX, and
/proc-based Linux, ports need such power.), then access to memory
devices is automatic (or not needed in the case of /proc-based
Linux).

Your choice of permissions for lsof may also be affected by your
desire to allow anyone to use it or your need to restrict its usage
to specific individuals. You will have to be guided by local policy
and convention in this case.

The next two sections, Setgid Lsof Dialect Versions and Setuid-root
Lsof Dialect Versions, list recommended install permissions.

The system directory where you install the lsof executable is also
open to choice. A traditional place for a tool like lsof is
/usr/local/etc, but recent changes in directory structure organization
suggest that somewhere in /opt may be more suitable.

Bear one other factor in mind when choosing a location
for the lsof
executable -- it usually is a shared executable, requiring access
to shared libraries. Thus, locations like /sbin or /usr/sbin are
probably unsuitable.

Once you've chosen a location for the executable you may find that
the location for the man page follows -- e.g., if the executable
goes in /usr/local/etc, then the man page goes in /usr/local/man.
If the executable location doesn't imply a location for the man
page, you'll have to let local custom guide you.

Setuid-root Lsof Dialect Versions
==========

These dialect versions should be installed with setuid-root
permission -- i.e., the lsof binary should be owned by root and
its setuid execution bit (04000) should be set.

 AIX 5L and above for full use of the -X option
 Apple Darwin 8.x for Power Macintosh systems
 PSTAT-based HP-UX 11.11 and 11.23
 /proc-based Linux (generally 2.1.72 and above)

Setgid Lsof Dialect Versions
==========

These dialect versions should be installed
 with setgid permission,
owned by the group that can read kernel memory devices such as
/dev/drum, /dev/kmem, /dev/ksyms, /dev/mem, /dev/swap. ACLs may
be another mechanism (e.g., under AIX or Solaris 8) you can use to
grant read permission to the kernel memory devices.

 AIX 4.1.[45], 4.2[.1], and 4.3[.123]
 Apple Darwin 7.x for Power Macintosh systems
 DEC OSF/1, Digital UNIX, Tru64 UNIX 2.0, 3.2, 4.0, and 5.[01]
 FreeBSD 2.1.6, 2.2[.x], 3.x, 4.x, 5.x, [6789].x and 1[012].x
 NetBSD 1.[456], 2.x and 3.x
 NEXTSTEP 3.[13]
 OpenBSD 2.[89] and 3.[0-9]
 OPENSTEP 4.x
 Caldera OpenUNIX 8
 SCO OpenServer 5.0.[46]
 SCO UnixWare 7.0 and 7.1.[0134]
 Solaris 2.6, 8, 9 and 10
 Ultrix 4.2 (no longer available)

==========
Porting lsof 4 to a New UNIX Dialect
==========

If you're brave enough to consider this, look at the 00PORTING
file. Please contact me before you start. I might be able to help
you or even do the port myself.

Don't overlook

the contrib/ directory in pub/tools/unix/lsof on my
ftp server, lsof.itap.purdue.edu. It contains user-contributed ports
of lsof to dialects I don't distribute, because I can't test new
revisions of lsof on them.

==========
Quick Start to Using lsof
==========

For information on how to get started quickly using lsof, consult
the 00QUICKSTART file of the lsof distribution. It cuts past the
formal density of the lsof man page to provide quick examples of
using lsof to solve common open file display problems.

==========
Cross-configuring Lsof
==========

Using environment variables it is possible to Configure (and possibly
build) lsof for one UNIX dialect on a different one -- e.g., you
are running Configure on a Linux 2.3 system and you want to Configure
and build lsof for Linux 2.4.

See the 00XCONFIG file of the lsof distribution for a discussion
of how to do this.

==========
Environment
Variables Affecting the Configure Script
==========

Configure script actions can be modified by introducing values to
the script via environment variables. In many cases the environment
variable values take the place of test operations the Configure
script makes.

For more information on environment variables that can affect
Configure, consult the 00XCONFIG file of the lsof distribution.
See the General Environment Variables sections for descriptions of
ones that affect all dialects. Consult the Dialect-Specific
Environment Variables section for ones that might affect the dialect
you are trying to configure.

Vic Abell <abe@purdue.edu>

February 14, 2018

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/00README
No license file was found, but licenses were detected in source scan.

```
/*-
* Copyright (c) 1980, 1983, 1988 Regents of the University of California.
* All rights reserved.
*
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* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
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* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* @(#)netdb.h 5.15 (Berkeley) 4/3/91
*/
```

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/include/netdb.h
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1994 Purdue Research Foundation, West Lafayette, Indiana
```

* 47907. All rights reserved.
*
* Written by Victor A. Abell
*
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*   misrepresented as being the original software.
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* 4. This notice may not be removed or altered.
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*
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* are met:
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* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/ddev.c
No license file was found, but licenses were detected in source scan.

/*
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* 47907. All rights reserved.
*
* Written by V. Abell.
*
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*
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* any computer system, and to alter it and redistribute it freely, subject
* to the following restrictions:
*
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*
* 3. Altered versions must be plainly marked as such, and must not be
*   misrepresented as being the original software.
*
*
 4. This notice may not be removed or altered.
*/
/*
    * If this is a regular file with a non-numeric FD, it may be the
    * executable.
    */

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTbasic.c
No license file was found, but licenses were detected in source scan.

```
/*
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*
* 3. Altered versions must be plainly marked as such, and must not be
*    misrepresented as being the original software.
*
*
 4. This notice may not be removed or altered.
*/
```

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTnfs.c
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTunix.c
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTlock.c
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTbigf.c
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTszoff.c
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTdnlc.c
* /lsof-4-92-1-zip/lsof-4.92.1/tests/LTnlink.c

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

```
/*
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*
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* 47907.  All rights reserved.
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Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/libproc/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/libproc/dfile.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about lsof

```
***************************************************************************
| The latest release of lsof is always available via anonymous ftp   |
| from lsof.itap.purdue.edu.  Look in pub/lsof.README for its       |
| location.                                   |
***************************************************************************
```

This file contains frequently asked questions about lsof and answers
to them.

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Table of Contents:

1.0 General Concepts
1.1 Lsof -- what is it?
1.2 Where do I get lsof?
1.2.1 Are there mirror sites?

1.2.2 Are lsof executables available?
1.2.3 How do I check the validity of an lsof distribution?
1.2.4 Why can't I get the sum(1) result reported in README.lsof_<revision>?
1.2.5 Why won't gpg accept the lsof-signing PGP public key?
1.3 Where can I get more lsof documentation?
1.4 How do I report an lsof bug?
1.5 Where can I get the lsof FAQ?
1.5.1 How timely is the on-line FAQ?
1.6 Is there a test suite?
1.7 Is lsof vulnerable to the standard I/O descriptor attack?
1.8 Can I alter lsof's make(1) behavior?
1.9 Is there an lsof license?
1.10 Language locale support
1.10.1 Does lsof support language locales? How do I use the support?
1.10.2 Does lsof support wide characters in language locales?
1.11 Are any files in the lsof distribution copyrighted?
1.12 Are there other lsof-related resources?
1.13 What does the "WARNING: unsupported dialect or version" mean?

2.0 Lsof Ports
2.1 What ports exist?
2.2 What about a new port?
2.2.1 User-contributed Ports
2.3 Why isn't there an AT&T SVR4 port?
2.4 Why isn't there an SGI IRIX port?
2.5 Why does lsof's Configure script report "WARNING: unsupported dialect or version"?

3.0 Lsof Problems
3.1 Configuration Problems
3.1.1 Why can't Configure determine the UNIX dialect version?
3.2 Compilation Problems
3.2.1 Why does the compiler complain about missing header files?
3.2.2 Why does gcc complain about the contents of header files distributed by the system's vendor?
3.2.3 Other header file problems
3.3 Why doesn't lsof report full path names?
3.3.1 Why do lsof -r reports show different path names?
3.3.2 Why does lsof report the wrong path names?
3.3.3 Why doesn't lsof report path names for unlinked (rm'd) files?
3.3.4 Why doesn't lsof report the "correct" hard linked file path name?
3.3.5 When will lsof report path names for deleted files?
3.4 Why is lsof so slow?
3.5 Why doesn't lsof's setgid or setuid permission work?

3.6 Does lsof have security problems?
3.7 Will lsof show remote hosts using files via NFS?
3.8 Why doesn't lsof report locks held on NFS files?
3.8.1 Why does lsof report a one byte lock on byte zero as a full file lock?
3.9 Why does lsof report different values for open files on the same file system (the automounter phenomenon)?
3.10 Why don't lsof and netstat output match?
3.10.1 Why can't lsof find accesses to some TCP and UDP ports?
3.11 Why does lsof update the device cache file?
3.12 Why doesn't lsof report state for UDP socket files?
3.13 I am editing a file with vi; why doesn't lsof find the file?
3.14 Why doesn't lsof report TCP/TPI window and queue sizes for my dialect?
3.14.1 Why doesn't lsof report socket options, socket states, and TCP flags and values for my dialect?
3.14.2 Why doesn't lsof report the partial listen queue connection count for my dialect?
3.15 What does "no more information" in the NAME column mean?
3.16 Why doesn't lsof find a process that ps finds?
3.17 Why doesn't -V report a search failure?
3.18 Portmap problems
3.18.1 Why isn't a name displayed for the portmap registration?
3.18.2 How can I display only portmap registrations?
3.18.3 Why doesn't lsof report portmap registrations for some ports?
3.18.4 Why doesn't lsof report portmap registrations for some Solaris versions?
3.19 Why is `lsof | wc` bigger than my system's open file limit?
3.20 Why doesn't lsof report file offset (position)?
3.20.1 What does lsof report for size when the file doesn't really have one?
3.21 Problems with path name arguments
3.21.1 How do I ask lsof to search a file system?
3.21.2 Why doesn't lsof find all the open files in a file system?
3.21.3 Why does the lsof exit code report it didn't find open files when some files were listed?
3.21.4 Why won't lsof find all the open files in a directory?
3.21.5 Why are the +D and +d options so slow?
3.21.6 Why do the +D and +d options produce warning messages?
3.22 Why can't my C compiler find the rpcent structure definition?
3.23 Why doesn't lsof report fully on file "foo" on UNIX dialect "bar?"
3.24 Why do I get a complaint when I execute lsof that some library file can't be found?
3.25 Why does lsof complain it can't open files?
3.26 Why does lsof warn

"compiled for x ... y; this is z."?
3.27 How can I disable the kernel identity check?
3.28 Why don't ps(1) and lsof agree on the owner of a process?
3.29 Why doesn't lsof find an open socket file whose connection
state is past CLOSE_WAIT?
3.30 Why don't machine.h definitions work when the surrounding
comments are removed?
3.31 What do "can't read inpcb at 0x...", "no protocol control
block", "no PCB, CANTSENDMORE, CANTRCVMORE", etc. mean?
3.32 What do the "unknown file system type" warnings mean?
3.33 Installation
3.33.1 How do I install lsof?
3.33.2 How do I install a common lsof when I have machines that
need differently constructed lsof binaries?
3.34 Why do lsof 4.53 and above reject device cache files built
by earlier lsof revisions?
3.35 What do "like block special" and "like character special" mean
in the NAME column?
3.36 Why does an lsof make fail because of undefined symbols?
3.37 Command Regular Expressions (REs)
3.37.1 What are basic and extended regular expressions?
3.37.2 Why
can't I put a slash in a command regular expression?
3.37.3 Why does lsof say my command regular expression wasn't found?
3.38 Why doesn't lsof report on shared memory segments?
3.39 Why does lsof report two instances of itself?
3.40 Why does lsof report '\n' in device cache file error messages?
3.41 Kernel Symbol and Address Problems
3.41.1 What does "lsof: WARNING: name cache hash size length error: 0"
mean?
3.41.2 Why does lsof produce "garbage" output?
3.42 Why does lsof report open files when run as super user that
it doesn't report when run with lesser privileges?
3.43 Test Suite Problems
3.43.1 Errors all tests can report:
3.43.1.1 Why do tests complain "ERROR!!! can't execute ../lsof"?
3.43.1.2 Why do tests complain "ERROR!!! can't find ..." a file?
3.43.1.3 Why do some tests fail to compile?
3.43.1.4 Why do some tests always fail?
3.43.1.5 Why does the test suite say it hasn't been validated on
my dialect?
3.43.1.6 Why do the tests complain they can't stat()
or open()
/dev/mem or /dev/kmem?
3.43.2 LTbigf test issues
3.43.2.1 Why does the LTbigf test say that the dialect doesn't
support large files?
3.43.2.2 Why does LTbigf complain about operations on its config.LTbigf*

file?
3.43.2.3 Why does LTbigf warn that lsof doesn't return file offsets?
3.43.3 Why does the LTbasic test complain "ERROR!!! lsof this ..."
and "ERROR!!! lsof that ..."?
3.43.4 LTnfs test issues
3.43.4.1 Why does the LTnfs test complain "couldn't find NFS file ..."?
3.43.5 LTnlink test issues
3.43.5.1 Why does the LTnlink test complain that its test file is on
an NFS file system?
3.43.5.2 Why does LTnlink delay and report "waiting for link count
update: ..."?
3.43.5.3 Why does LTnlink fail because of an unlink error?
3.43.6 LTdnlc test issues
3.43.6.1 Why won't the LTdnlc test run?
3.43.6.2 What does the LTdnlc test mean by "... <path> found: 100.00%"?
3.43.6.3 Why does the DNLC test fail?
3.43.7 Why hasn't the test suite been qualified for 64 bit HP-UX
11
when lsof is compiled with gcc?
3.43.8 LTszoff test issues
3.43.8.1 Why does LTszoff warn that lsof doesn't return file offsets?
3.43.9 LTlock test issues
3.44 File descriptor list (the ``-d'' option) problems
3.44.1 Why does lsof reject a ``-d'' FD list?
3.44.2 Why are file descriptors other than those in my FD list
reported?
3.45 How can I supply device numbers for inaccessible NFS file
systems?
3.46 Why won't lsof find open files on over-mounted file systems?
3.47 What can be done when lsof reports no more space?
3.48 What if the lsof build encounters ar and ld problems?
3.49 Why does lsof -i report an open socket file for a process, but
lsof -p on that process' ID report nothing?

4.0 AIX Problems
4.1 What is the Stale Segment ID bug and why is -X needed?
4.1.1 Stale Segment ID APAR
4.2 Gcc Work-around for AIX 4.1x
4.3 Gcc and AIX 4.2
4.4 Why won't lsof's Configure allow the use of gcc for AIX
below 4.1?
4.5 What is an AIX SMT file type?
4.6 Why does AIX lsof start so slowly?
4.7 Why
does exec complain it can't find libc.a[shr.o]?
4.8 What does lsof mean when it says, "TCP no PCB, CANTSENDMORE,
CANTRCVMORE" in a socket file's NAME column?
4.9 When the -X option is used on AIX 4.3.3, why does lsof disable

it, saying "WARNING: user struct mismatch; -X option disabled?"
4.10 Why doesn't the -X option work on my AIX 5L or 5.[123] system?
4.11 Why doesn't /usr/bin/oslevel report the correct AIX version?
4.11.1 Why doesn't /usr/bin/oslevel report the correct AIX version on AIX 5.1?
4.12 Why does lsof for AIX 5.1 or above Power architecture complain about kernel bit size?
4.13 What can't gcc be used to compile lsof on the ia64 architecture for AIX 5 and above?
4.14 Why does lsof get a segmentation fault when compiled with gcc for a 64 bit Power architecture AIX 5.1 kernel?
4.15 Why does lsof ignore AFS on my AIX system?
4.16 Why does lsof report "system paging space is low" and exit?
4.17 Why does lsof have compilation and execution problems on AIX 5.3 above maintenance level 1?

5.0 Apple Darwin Problems
5.1 What do /dev/kmem-based and libproc-based mean?
5.2 /dev/kmem-based Apple Darwin Questions
5.2.1 Why does Configure ask for a path to the Darwin XNU kernel header files?
5.2.1.1 Why does Configure complain that Darwin XNU kernel header files are missing?
5.2.2 Why doesn't Apple Darwin lsof report text file information?
5.2.3 Why doesn't Apple Darwin lsof support IPv6?
5.2.4 Why does lsof complain about a mismatch between the release for which lsof was compiled and the booted Mac OS X release?
5.2.5 Why does lsof for Apple Darwin 8 and higher report "stat(...): ..." in the NAME column?
5.2.6 What are the limitations of Apple Darwin lsof link count reporting?
5.2.7 Why does Apple Darwin report process group IDs incorrectly?"ayy
5.3 Libproc-based Apple Darwin Questions

6.0 BSD/OS BSDI Problems
6.0.5 Statement of deprecation

7.0 DEC OSF/1, Digital UNIX, and Tru64 UNIX Problems
7.1 Why does lsof complain about non-existent /dev/fd entries?
7.2 Why does the Digital UNIX V3.2 ld complain about Ots* symbols?
7.3 Why can't lsof locate named pipes (FIFOs) under V3.2?
7.4 Why does lsof use the wrong configuration header files? For example, why can't the lsof compilation find cpus.h?
7.5 Why does lsof indicate incomplete paths with " -- " for Tru64 UNIX 5.1 files?
7.6 Why doesn't lsof report link count, node number, and size

for some Tru64 5.x CFS files?
7.7 Why does lsof say it can't read the kernel name list or
proc table on Digital UNIX 4.x or Tru64 UNIX?

8.0 FreeBSD Problems
8.1 Why doesn't lsof report on open kernfs files?
8.2 Why doesn't lsof work on my FreeBSD system?
8.3 Why doesn't lsof work on the RELEASE version of CURRENT?
8.4 Why can't kvm_open() can't find some file?
8.5 FreeBSD ZFS Problems
8.5.1 Why does FreeBSD lsof report "WARNING: no ZFS support has been
8.6 Why can't Configure create lsof_owner.h for FreeBSD 6 and above?
8.6.1 Why are there lockf structure compiler errors for FreeBSD
6.0
and higher lsof?
8.6.2 Why don't /usr/src/sys/sys/lockf.h and /usr/include/sys/lockf.h
match?
8.7 FreeBSD and clang
8.7.1 Why does clang complain about VOP_FSYNC?

9.0 HP-UX Problems
9.1 What do /dev/kmem-based and PSTAT-based mean?
9.2 /dev/kmem-based HP-UX lsof Questions
9.2.1 Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?
9.2.2 Why doesn't the /dev/kmem-based CCITT support work under 10.x?
9.2.3 Why can't /dev/kmem-based lsof be compiled with `cc -Aa` or
`gcc -ansi` under HP-UX 10.x?
9.2.4 Why does /dev/kmem-based lsof complain about no C compiler?
9.2.5 Why does Configure complain about q4 for /dev/kmem-based lsof
for HP-UX 11?
9.2.6 When compiling /dev/kmem-based lsof for HP-UX 11 what do the
"aCC runtime: ERROR..." messages mean?
9.2.7 Why doesn't /dev/kmem-based lsof for HP-UX 11 report VxFS file
link counts, node numbers, and sizes correctly?
9.2.8 Why can't /dev/kmem-based lsof be built with gcc for 64 bit
HP-UX 11?
9.2.8.1 How can I acquire a gcc for
building lsof for 64 bit HP-UX 11?
9.2.9 Why does /dev/kmem-based lsof for HP-UX 11 report "unknown file
system type" for VxFS files?
9.2.10 Why does the ANSI-C compiler complain about comments in HP-UX
11 header files?
9.2.11 Why does dnode1.c cause the HP-UX 11 compiler to complain that
<sys/fs/vx_inode.h> is missing or incorrect?
9.3 PSTAT-based HP-UX lsof Questions
9.3.1 Why does PSTAT-based lsof complain about pst_static and
other PSTAT structures?
9.3.2 Why does PSTAT-based lsof complain it can't read pst_*

structures?
9.3.3 Why does PSTAT-based lsof rebuild the device cache file
after each reboot?
9.3.4 Why doesn't PSTAT-based lsof report TCP addresses for
telnetd's open socket files?
9.3.5 Why does PSTAT-based lsof cause an HP-UX 11.11 kernel panic?
9.3.6 Why doesn't PSTAT-based lsof report a CWD that is on a loopback
(LOFS) file system?
9.3.7 Why do some swinstall packages for PSTAT-based HP-UX 11.11
packages complain about setgid and setuid bits?
9.3.8 Why won't
the bundled C compiler build PSTAT-based lsof for
PA-RISC HP-UX 11.23?
9.3.9 Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?
9.3.10 Why does PSTAT-based lsof complain, "FATAL: pst_stream_size
should be: 672; is 72" on HP-UX 11.11 and above?
9.4 Why won't the HP-UX depot install?

10.0 Linux Problems
10.1 What do /dev/kmem-based and /proc-based lsof mean?
10.2 /proc-based Linux lsof Questions
10.2.1 Why doesn't /proc-based lsof report file offsets (positions)?
10.2.2 Why does /proc-based lsof report "can't identify protocol" for
some socket files?
10.2.3 Why does /proc-based lsof warn about unsupported formats?
10.2.4 Why does /proc-based lsof report "(deleted)" after a path name?
10.2.5 Why doesn't /proc-based lsof report full open file information
for all processes?
10.2.6 Why won't Customize offer to change HASDCACHE or WARNDEVACCESS
for /proc-based lsof?
10.2.7 /proc-based lsof Linux NFS questions
10.2.7.1 Why can't lsof find files on an accessible NFS file system?
10.2.7.2
Why can't lsof find files on an inaccessible NFS file system?
10.2.8 Why doesn't /proc-based Linux lsof report socket options and
values, socket state flags, and TCP options and values?
10.2.9 Does /proc-based Linux lsof use a device cache?
10.2.10 Why doesn't /proc-based Linux lsof report any or all file structure
values for its +fcfgGn option?
10.3 Special Linux file types
10.3.1 Why is ``DEL'' reported as a Linux file type?
10.3.2 Why is ``unknown'' reported as a Linux file type?
10.4 Linux ``mem'' Entry Problems
10.4.1 What do ``path dev=xxx'' and ``path inode=yyy'' mean in the
NAME column of Linux ``mem'' file types?
10.4.2 Why is neither link count nor size reported for some Linux
``DEL'' and ``mem'' file types?
10.5 Special Linux NAME column messages

10.5.1 What does ``(stat: xxx)'' mean in the NAME column of Linux files?
10.5.2 What does ``(readlink: xxx)'' mean in the NAME column of Linux files?
10.6 Why is ``NOFD'' reported as a Linux file type?
10.7 Why does Linux lsof report a NAME column value that begins with ``/proc''?
10.8 Linux /proc/net/tcp* and /proc/net/udp* issues
10.8.1 Why use the Linux -X option?
10.8.2 Why does lsof say ``-i is useless when -X is specified''?
10.8.3 Why does lsof say ``can't identify protocol (-X specified)''?

11.0 NetBSD Problems
11.1 Why doesn't lsof report on open kernfs files?
11.2 Why doesn't lsof report on open files on: file descriptor file systems; /proc file systems; 9660 (CD-ROM) file systems; MS-DOS (floppy disk) file systems; or kernel file systems?
11.3 Why does lsof produce confusing results for nullfs file systems?
11.4 NetBSD header file problems
11.4.1 Why can't the compiler find some NetBSD header files?
11.4.2 Why does NetBSD lsof produce incorrect output?
11.5 Why isn't lsof feature xxx enabled for NetBSD?

12.0 NEXTSTEP and OPENSTEP Problems
12.1 Why can't lsof report on 3.1 lockf() or fcntl(F_SETLK) locks?
12.2 Why doesn't lsof compile for NEXTSTEP with AFS?

13.0 OpenBSD Problems
13.1 Why doesn't lsof support kernfs on my OpenBSD system?
13.2 Will lsof work on OpenBSD on non-x86-based architectures?
13.3 <sys/pipe.h> problems
13.3.1 Why does the compiler claim nbpg isn't defined?
13.3.2 What value should I assign to nbpg?
13.4 Why doesn't lsof report on open MS-DOS file system (floppy disk) files?
13.5 Why isn't lsof feature xxx enabled for OpenBSD?

14.0 Output problems
14.1 Why do the lsof column sizes change?
14.2 Why does the offset have ``0t' and ``0x'' prefixes?
14.3 What are the values printed in the FILE_FLAG column and why is 0x<value> sometimes included?
14.3.1 Why doesn't lsof display FILE_FLAG values for my dialect?
14.4 Network Addresses

14.4.1 Why does lsof's -n option cause IPv4 addresses, mapped to
IPv6, to be displayed in IPv6 notation?
14.5 Why does lsof output \x, ^x, or \xnn for characters
sometimes?
14.5.1 Why is space considered a non-printable character in command
names?
14.6 Why doesn't lsof print all the characters of
a command name?
14.7 Why does lsof reject some -c command names, saying their lengths
are "> what system provides (nn)"?
14.8 Why does lsof sometimes print TYPE numbers instead of names?
14.9 Marker line format problems
14.9.1 Why won't lsof accept a marker line format?
14.9.2 Why does lsof reject the NL (%n) marker line format?
14.10 How are protocol state name exclusion and inclusion used?
14.10.1 Why doesn't my dialect support state name exclusion and inclusion?

15.0 Pyramid Version Problems
15.0.5 Statement of deprecation

16.0 SCO Problems
16.1 SCO OpenServer Problems
16.1.1 How can I avoid segmentation faults when compiling lsof?
16.1.2 Where is libsocket.a?
16.1.3 Why do I get "warning C4200" messages when I compile lsof?
16.2 SCO|Caldera UnixWare Problems
16.2.1 Why doesn't lsof compile on my UnixWare 7.1.1 or above
system?
16.2.2 Why does lsof complain about node_self() on my UnixWare
7.1.1 or above system?
16.2.3 Why does UnixWare 7.1.1 or above complain about -lcluster,
node_self(),
or libcluster.so?
16.2.4 Why does UnixWare 7.1.1 or above lsof complain it can't
read the kernel name list?
16.2.5 Why doesn't lsof report link count, node number, and size
for some UnixWare 7.1.1 or above CFS files?
16.2.6 Why doesn't lsof report open files on all UnixWare 7.1.1
NonStop Cluster (NSC) nodes?
16.2.7 Why doesn't lsof report the UnixWare 7.1.1 NonStop Cluster
(NSC) node a process is using?
16.2.8 Why does the compiler complain about missing UnixWare 2.1[.x]
header files?

17.0 Sun Problems
17.0.5 Statement of deprecation
17.1 My Sun gcc-compiled lsof doesn't work -- why?
17.2 How can I make lsof compile with gcc under Solaris 2.[456],

2.5.1, 7, 8 or 9?
17.3 Why does Solaris Sun C complain about system header files?
17.4 Why doesn't lsof work under my Solaris 2.4 system?
17.5 Where are the Solaris header files?
17.6 Where is the Solaris /usr/src/uts/<architecture>/sys/machparam.h?
17.7 Why does Solaris lsof say ``can't read proc table''?
17.8 Why
does Solaris lsof complain about a bad cached clone device?
17.9 Why doesn't Solaris make generate .o files?
17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?
17.11 Why does lsof Configure say "WARNING: no cc in ..."?
17.12 Solaris 7, 8 and 9 Problems
17.12.1 Why does lsof say the compiler isn't adequate for Solaris
7, 8 or 9?
17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled
for..."?
17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32
bit Solaris kernel?
17.12.4 How do I install lsof for Solaris 7, 8 or 9?
17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute
lsof?
17.12.6 What gcc will produce 64 bit Solaris 7, 8 and 9 executables?
17.12.7 Why does lsof on my Solaris 7, 8 or 9 system say, "can't
read namelist from /dev/ksyms?"
17.13 Solaris and COMMON
17.13.1 What does COMMON mean in the NAME column for a Solaris VCHR
file?
17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an
incorrect minor
device number?
17.14 Why don't lsof and Solaris pfiles reports always match?
17.15 Why does lsof say, "kvm_open(namelist=default, core=default):
Permission denied?"
17.16 Why is lsof slow on my busy Solaris UFS file system?
17.17 Why is lsof so slow on my Solaris 8 or 9 system?
17.18 Solaris and VxFS
17.18.1 Why doesn't lsof support VxFS 3.4 on Solaris 2.6, and above?
17.18.2 Why does lsof report "vx_inode: vxfsu_get_ioffsets error"
for open Solaris 2.6 and above VxFS 3.4 and above files?
17.18.3 Why does Solaris Configure claim there is no VxFS library?
17.18.4 Why doesn't Solaris lsof report VxFS path name components?
17.18.5 Why does Solaris 10 lsof report scrambled VxFS paths?
17.19 Large file problems
17.19.1 Why does lsof complain it can't stat(2) a Solaris 2.5.1
large file?
17.20 Why does lsof get a segmentation fault on 64 bit Solaris
8 using NIS+?
17.21 Will lsof crash the Solaris kernel?

17.22 Why does lsof on Solaris 7, 8, or 9 report a kvm_open() failure?
17.23 Solaris and SAM-FS
17.23.1 Why does Solaris lsof report "(limited SAM-FS info)"?
17.23.2 Why can't lsof locate named SAM-FS files?
17.24 Lsof and Solaris 10 zones
17.24.1 How can I make lsof list the Solaris zone?
17.24.2 Why doesn't lsof work in a Solaris 10 zone?
17.24.3 Why does lsof complain it can't stat() Solaris 10 zone file systems?
17.25 Solaris 10 problems
17.25.1 Why does Solaris 10 lsof sometimes report the wrong path name?
17.25.2 Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?
17.25.3 What does "(deleted)" mean in the NAME column of a Solaris 10 open file?
17.25.4 What does "(?)" mean in the NAME column of a Solaris 10 open file?
17.26 Solaris contract file problems
17.26.1 Why doesn't lsof report size, link count and node number for Solaris 10 contract files?
17.26.2 Why can't lsof locate a Solaris 10 contract file by path name?
17.27 Solaris 10 and above ZFS probblems
17.27.1 Why does Configure warn that ZFS support is not enabled?
17.28 Problems with Solaris 9 and above
17.28.1 Why does the compiler complain about lgrp_root on Solaris 9 and above?

18.0 Lsof Features
18.1 Why doesn't lsof doesn't report on /proc entries on my system?
18.2 How do I disable the device cache file feature or alter it's behavior?
18.2.1 What's the risk with a perverted device cache file?
18.2.2 How do I put the full host name in a personal device cache file path?
18.2.3 How do I put the personal device cache file in /tmp?
18.3 Why doesn't lsof know about AFS files on my favorite dialect?
18.3.1 Why doesn't lsof report node numbers for all AFS volume files, or how do I reveal dynamic module addresses to lsof?

1.0 General Concepts

1.1 Lsof -- what is it?

Lsof is a UNIX-specific tool. Its name stands for LiSt
Open Files, and it does just that. It lists information
about files that are open by the processes running on a
UNIX system.

See the lsof man
page, the 00DIST file, the 00QUICKSTART
file, and the 00README file of the lsof distribution for
more information.

1.2 Where do I get lsof?

Lsof is available via anonymous ftp from lsof.itap.purdue.edu.
Look in the pub/tools/unix/lsof sub-directory.

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof

Bzip2'd, compressed and gzip'd tar files with GPG certificates
are available.

1.2.1 Are there mirror sites?

On March 21, 2013 these sites appeared to have the lastest
lsof revision:

ftp://ftp.fu-berlin.de/pub/unix/tools/lsof
ftp://sunsite.ualberta.ca/pub/Mirror/lsof
http://www.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
ftp://ftp.mirrorservice.org/sites/lsof.itap.purdue.edu/pub/tools/unix/lsof/
rsync://rsync.mirrorservice.org/lsof.itap.purdue.edu/pub/tools/unix/lsof/

1.2.2 Are lsof executables available?

Some lsof executables are available in the subdirectory
tree pub/tools/unix/lsof/binaries These are neither guaranteed
to be current nor cover
every dialect and machine architecture.

I don't recommend you use pre-compiled lsof binaries; I
recommend you obtain the sources and build your own binary.
Even if you're a Sun user without a Sun C compiler, you
can use gcc to compile lsof.

If you must use a binary file, please be conscious of the
security and configuration implications in using an executable
of unknown or different origin. The lsof binaries are
accompanied by GPG certificates. Please use them!

Three additional cautions apply to executables:

1. Don't try to use an lsof executable, compiled for one version of a UNIX dialect, on another. Patches can make the dialect version different.

2. If you want to use an lsof binary on multiple systems, they must be running the same dialect OS version and have the same patches and feature support.

1.2.3 How do I check the validity of an lsof distribution?

There are two ways to check the validity of an lsof distribution:

1. Follow the instructions in the CHECKSUMS_<revision> file found with the lsof distribution.

   Checking with GPG is the best method.

2. Follow the instructions in the "Security" section of the README.lsof_<revision> file found inside the lsof distribution.

   Again, checking with GPG is the best method.

1.2.4 Why can't I get the sum(1) result reported in README.lsof_<revision>?

The "Security" section of the README.lsof_<revision> file found inside the lsof distribution gives md5, sum, and GPG certificate information.

The simplest, the sum(1) signature, seems to be the trickiest. That's because there are different sum(1) methods, BSD systems usually have cksum(1) instead of sum(1), and different systems compute the block size value differently.

First, the lsof sum results are computed with the old, "alternate" algorithm. On newer systems, you can use sum's "-r" option to get that computation result.

Second, on BSD systems you usually must use cksum(1) instead of sum(1), because they have no sum(1). To tell cksum(1) to use the old, "alternate" algorithm, use its "-o1" option.

Third, the second value that sum reports, the block count, may be computed differently on different systems -- usually block size is considered to be 512 or 1,024. The lsof block counts were computed on a system with a sum(1) option that considers block size to be 512. The BSD system cksum(1) -o1 option considers block size to be 1,024. If your sum(1) or cksum(1) doesn't report a block count that matches the sum(1) signature given in README.lsof_<revision>, check its man page to see what block size it uses, then adjust its reported block count appropriately.

1.2.5 Why won't gpg accept the lsof-signing PGP public key?

An older PGP key that once signed lsof distributions is included in lsof revisions prior to 4.70. The PGP key is indeed my key, but is incompatible with GPG. It was created about ten years ago and is still acceptable to PGP versions 2.6.2
through 6.5.2.

Lsof revisions 4.70 and above are signed with a copy of my PGP key that has been made acceptable for use with GPG by importing it under GPG's "--allow-non-selfsigned-uid" option.

You can find my GPG compatible key in lsof revisions 4.70 and above and at:

ftp://lsof.itap.purdue.edu/pub/Victor_A_Abell.gpg

If you have an older lsof revision with my PGP key, there are two possible ways to use it:

* Use it with a PGP version from 2.6.2 through 6.5.2.

* Use GPG's "--allow-non-selfsigned-uid" option when you import my PGP key into your GPG key ring.

$ gpg --allow-non-selfsigned-uid --import Victor_A_Abell.pgp

1.3 Where can I get more lsof documentation?

A significant set of documentation may be found in the lsof distribution (See "Where can I get lsof?). There is a manual page, copious documentation in files whose names begin with 00, and a copy of this FAQ in the file 00FAQ (perhaps slightly less recent than this file if you're reading

it via a web browser.)

Two URLs provide some documentation that appears in the
lsof distribution:

FAQ: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

man page: ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

1.4 How do I report an lsof bug?

If you believe you have discovered a bug in lsof, you can
report it via e-mail to <abe@purdue.edu>. Do NOT report lsof
bugs to the UNIX dialect vendor. Make sure "lsof" appears in
the "Subject:" line so my e-mail filter won't classify your
letter as Spam.

Before you send me a bug report, please read the "Bug Reports"
section of the 00README file of the lsof distribution. It
lists the steps you should take before and when reporting a
suspected bug.

1.5 Where can I get the lsof FAQ?

This lsof FAQ is available in the file 00FAQ in the lsof
distribution and at the URL:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

1.5.1 How timely is the on-line FAQ?

The on-line FAQ is sometimes too timely. :-)

I
update it as soon as new information is available. That may
include information about support that won't appear in the lsof
source distribution until the next revision. If you encounter
something like that, please send me e-mail at <abe@purdue.edu>. I
may be able to point you at a pre-release distribution that contains
the support of interest. Make sure "lsof" appears in the "Subject:"
line so my e-mail filter won't classify your letter as Spam.

1.6 Is there a test suite?

Yes, as of lsof revision 4.63 there's an automated lsof
test suite in the tests/ sub-directory of the lsof top-level
directory.

More information on using the test suite, what it does,
how to use it and how to configure it may be found in the
00TEST file of the lsof distribution. That file also
explains where the test suite has been tested.

Frequently asked questions about the test suite will be
asked and answered here in the FAQ. (See "Test Suite
Problems.")

After lsof has been configured
with the Configure script,
lsof can be made and tested with:

```
$ make
$ cd tests
$ make
```

Under normal conditions -- i.e., unless the lsof tree has
been cleaned or purged severely -- all tests or individual
tests may be run by:

```
$ cd test
$ make
```
or
```
$ <run a single test> (See 00TEST.)
```

1.7 Is lsof vulnerable to the standard I/O descriptor attack?

Lsof revisions 4.63 and above are not vulnerable.

Lsof revisions 4.62 and below are vulnerable, but no damage
scenarios have so far been demonstrated.

The standard I/O descriptor attack is a local programmed
assault on setuid and setgid programs that tricks them into
opening a sensitive file with write access on a standard
descriptor, usually stderr (2), and writing error messages
to stderr. If the attacker can control the content of the
error message, the attacker may gain elevated privileges.

The attack was first described in Pine Internet Advisory
PINE-CERT-20020401, available at:

http://www.pine.nl/advisories/pine-cert-20020401.txt

If you are using an lsof revision below 4.63, you should
remove any setuid or setgid permissions you might have

given its executable. Then you should upgrade to lsof
revision 4.63.

1.8 Can I alter lsof's make(1) behavior?

Yes. There are at least two ways to do that.

You can put replacements for lsof Makefile strings in your
environment. If you specify the -e make option, make will
give environment variable values precedence over strings
from the Makefile. For example, to change the compiler
string CC from the environment, you might do this with the
Bourne shell:

```
$ CC=foobar; export CC
$ make -e
```

You can also replace lsof Makefile strings in the make
command invocation. Here's the previous example done that
way:

```
$ make CC=foobar
```

Changing the CFGF, CFGL, and DEBUG strings used in lsof
Makefiles, either from the environment or from the make
invocation, can significantly alter lsof make(1) behavior.
I
commonly use DEBUG to change the -O option to -g so I
can build an lsof executable for debugging -- e.g.,

```
$ make DEBUG=-g
```

(Look for DEBUG in this FAQ for other examples of its use.)

Consult the Makefiles to see what CFGL, CFGL, and other
lsof Makefile strings contain, and to see what influence
their alteration might have on lsof make(1) behavior.

1.9 Is there an lsof license?

No.

The only restriction on the use or redistribution of lsof
is contained in this copyright statement, found in every
lsof source file. (The copyright year in or format of the
notice may vary slightly.)

/*

```
 * Copyright 2002 Purdue Research Foundation, West Lafayette,
 * Indiana 47907.  All rights reserved.
 *
 * Written by Victor A. Abell
 *
 * This software is not subject to any license of the American
 * Telephone and Telegraph Company or the Regents of the
 * University of California.
 *
 * Permission is granted to anyone to use this software for
 * any purpose on
any computer system, and to alter it and
 * redistribute it freely, subject to the following
 * restrictions:
 *
 * 1. Neither the authors nor Purdue University are responsible
 *    for any consequences of the use of this software.
 *
 * 2. The origin of this software must not be misrepresented,
 *    either by explicit claim or by omission.  Credit to the
 *    authors and Purdue University must appear in documentation
 *    and sources.
 *
 * 3. Altered versions must be plainly marked as such, and must
 *    not be misrepresented as being the original software.
 *
 * 4. This notice may not be removed or altered.
 */
```

1.10 Language locale support

1.10.1 Does lsof support language locales? How do I use the support?

Most UNIX dialect versions of lsof support 8 bit language
locale characters -- e.g., the ability to print 8 bit
characters that have accents and other marks over them.

See the answer to the "Does lsof support wide characters in
language locales?" question
for information on when lsof's
language locale support covers characters wider than 8 bits.

To see if lsof supports language locales for your dialect, look
in the dialect's machine.h header file for the HASSETLOCALE
definition. If it is present and not disabled, then lsof has
language locale support for the dialect.

To enable lsof's language locale support, you must specify in a

locale environment variable (e.g., LANG) a language locale
known to your system that supports the printing of marked
characters -- e.g, en_US. (On some dialects locale(1) may be
used to list the known language locales.)

Note that LANG=C and LANG=POSIX are NOT language locales that
support the printing of marked characters.

If the language locale doesn't support the printing of marked
characters, lsof's OUTPUT of them follows the rules for
non-printable characters described in the OUTPUT section of
lsof(8).

Consult your dialect's setlocale(3) man page for the names of
environment
variables other than LANG -- e.g., LC_ALL,
LC_TYPE, etc. -- which may be used to define language locales.

1.10.2 Does lsof support wide characters in language locales?

When lsof's language locale support is enabled with the
HASSETLOCALE definition, for selected dialects lsof will also
print wide characters (e.g., from UTF-8) when iswprint(3)
reports them to be printable.

Wide character support is available when HASWIDECHAR is defined
in a dialect's machine.h header file. As of this writing on
July 22, 2004, the following dialect versions have wide character
support:

AIX >= 4.3.2
Apple Darwin >= 7.3.0
FreeBSD >= 5.2
HP-UX >= 11.00
/proc-based Linux
NetBSD >= 1.6
SCO OpenServer >= 5.0.6
Solaris >= 2.6
Tru64 UNIX 5.1

1.11 Are any files in the lsof distribution copyrighted?

Yes. Most files carry the copyright of the Purdue Research
Foundation and may be redistributed under the terms that
accompany the copyright notice. Those
terms may also be found
in the answer to the question, "Is there an lsof license?")

A few files carry other copyright notices. Some are BSD notices and they explain the terms under which they are included in the lsof distribution.

Those that carry vendor copyright notices have been reproduced in their original or modified forms with permission from the copyright owners. That permission is indicated in the README files that accompany the files.

1.12 Are there other lsof-related resources?

There are other resources available, connected to lsof. Among them are FreeBSD and Linux packages whose products use lsof and two particularly interesting resources.

The two interesting resources are a Gnome Tool Kit (GTK) GUI for lsof and a Perl wrapper module.

The GTK GUI is called Glsof and was developed by Gnele. It can be found at:

http://www.sourceforge.net

The Perl wrapper module by Marc Beyer can be found at:

http://search.cpan.org/dist/Unix-Lsof/

1.13 What does the "WARNING: unsupported dialect or version" mean?

The lsof configure script issues that message for UNIX dialects or their versions where I have been unable to test the current revision of lsof. The message doesn't mean that lsof won't work, just that I have no direct evidence that it will.

If the COnfigure script succeeds, except for the warning, try compiling) lsof. If that succeeds, try the lsof test suite.

2.0 Lsof Ports

2.1 What ports exist?

The pub/lsof.README file carries the latest port information:

AIX 5.[23] and 5.3
FreeBSD 4.9 and 6.4 for x86-based systems
FreeBSD 8.[234], 9.0, 10.0 and 11.0 for AMD64-based systems
Linux 2.1.72 and above for x86-based systems

Solaris 9, 10 and 11

In the above list the only UNIX dialects present are ones for
which I test the current lsof revision. Lsof may still support
unlisted dialect versions -- e.g., HP-UX 10.20, Solaris 7, etc.
-- but I don't have access to systems where I could
test lsof
on them, so I can't claim lsof works on them. If your dialect
isn't in the list, you should try building lsof on it anyway.

Lsof version 4 predecessors, versions 2 and 3, may support older
version of some dialects. Contact me via e-mail at <abe@purdue.edu>
if you're interested in their distributions. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't classify
your letter as Spam.

2.2 What about a new port?

The 00PORTING file in the distribution gives hints on doing
a port. I will consider doing a port in exchange for
permanent access to a test host. I require permanent access
so I can test new lsof revisions, because I will not offer
distributions of dialect ports I cannot upgrade and test.

2.2.1 User-contributed Ports

Sometimes I receive contributions of ports of lsof to
systems where I can't test future revisions of lsof. Hence,
I don't incorporate these contributions into my lsof
distribution.

However, I do make descriptions
of these contributions
available. You can find them in the 00INDEX and README
files at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/contrib

Consult the 00INDEX file in the contrib/ directory for a
list of the available contributions and consult README
there for information on how to obtain them.

2.3 Why isn't there an AT&T SVR4 port?

I haven't produced an AT&T SVR4 port because I haven't seen
a UNIX dialect that is strictly limited to the AT&T System
V, Release 4 source code. Every one I have seen is a
derivative with vendor additions.

The vendor additions are significant to lsof because they affect the internal kernel structures with which lsof does business. While some vendor derivatives of SVR4 are similar, each one I have encounted so far has been different enough from its siblings to require special source code.

If you're interested in an SVR4 version of lsof, here are some existing ports you might consider:

DC/OSx (This obsolete port is only available upon special request.)
Reliant UNIX (This obsolete port is only available upon special request.)
SCO|Caldera UnixWare (This is the most likely choice.)
Solaris

2.4 Why isn't there an SGI IRIX port?

Lsof support for IRIX was terminated at lsof revision 4.36, because it had become increasingly difficult for me to obtain information on the IRIX kernel structures lsof needs to access.

At IRIX 6.5 I decided the obstacles were too large for me to overcome, and I stopped supporting lsof on IRIX. I have sources to the last revision of lsof (4.36) for IRIX, but that version of lsof does not work on IRIX 6.5 and is vulnerable to the standard I/O descriptor attack. (See the "Is lsof vulnerable to the standard I/O descriptor attack?" Q&A for more information.) Contact me to discuss obtaining those sources.

If you wish to pursue the issue, don't contact me, contact SGI. This case was opened with SGI on the subject:

Case ID: 0982584

Category: Unix
Priority: 30-Moderate Impact

Problem Summary:
kernel structure header files needed for continued lsof support

Problem Description:
Email In 07/17/98 19:09:23

2.5 Why does lsof's Configure script report "WARNING: unsupported dialect or version"?

Lsof's Configure script issues this message when it encounters a dialect or its version that lsof once supported, but no longer does. Usually I drop support for a dialect or version when I can no longer test lsof on it.

However, it's worth trying to compile and use lsof. Be sure to run the test suite. (See the answer to the "Is there a test suite? question for information on the test suite.)

If you have problems with an unsupported dialect or version, contact me via e-mail at <abe@purdue.edu> and I may be able to help. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

3.0 Lsof Problems

3.1 Configuration Problems

3.1.1 Why can't Configure determine the UNIX dialect version?

The lsof Configure script uses UNIX shell commands, often in a command pipeline, to determine the UNIX dialect version. (Consult the dialect stanza in Configure to determine which commands are used.) If Configure can't determine the dialect version, probably one of the commands is not behaving as Configure expects.

Symptoms of the failure include Configure warning messages and incorrect version definitions in the Makefile CFLAGS.

If you suspect that the lsof Configure script is failing to determine the dialect version correctly, try running the commands from Configure stanza one at a time. That will usually reveal the source of the problem. Be particularly mindful that the PATH environment variable can cause commands to be executed from non-standard directories.

If you can't determine the source of the problem, there is a work-around. You can supply the UNIX dialect version in the LSOF_VSTR environment variable. Use Configure as a guide to forming what it expects in LSOF_VSTR. There is also some

information on LSOF_VSTR in the 00XCONFIG documentation file
of the lsof distribution.

3.2 Compilation Problems

3.2.1 Why does the compiler complain about missing header files?

When you use make to build lsof, the compiler may complain
that it can't find header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-DAIXA=0 -DAIXV=4330 \
-DLSOF_VSTR=\"4.3.3.0\"")
gcc  -DAIXA=0 -DAIXV=4330 -DLSOF_VSTR="4.3.3.0" -O \
-c ckkv.c
In file included from ckkv.c:33: ../machine.h:70: \
sys/types.h: A file or directory in the path name \
does not exist. \
```

That type of complaint doesn't represent an lsof problem.
It represents a problem with a missing system header file
that probably should be found in /usr/include or in the
system source tree.

As a first step try using find(1) to locate the problem
header file.
If it's a system header file and can't be
found, here are some possible causes:

1. The file set, RPM or package containing the header files
has not been installed. Instructions for doing that
are specific to the UNIX dialect and beyond the scope
of this document.

2. If the compiler is gcc, the private gcc header files:

* May not have been installed;

* May have been installed incorrectly;

* May not have been updated properly after the last
compiler or system update;

* Ones from a previous installation may not have been
removed.

A path leading to the gcc private header files can be
found with `gcc -v`. Consult the gcc documentation for

instructions on proper installation of the private gcc
header files.

3. On some dialects -- e.g., FreeBSD, NetBSD, OpenBSD --
lsof may need to use header files that are located in
the system source tree -- /sys or /usr/src/sys, for
example. Make sure
the system source tree has been
installed.

3.2.2 Why does gcc complain about the contents of header files distributed by the system's vendor?

When you use make to build lsof and gcc to compile it, gcc may complain that it finds errors in system header files -- e.g.,

```
$ make
(cd lib; make DEBUG="-O" CFGF="-Dsolaris=80000 \
 -DHASPR_GWINDOWS -m64 -DHASIPv6 -DHAS_VSOCK \
 -DLSOF_VSTR=\"5.8\"")
 gcc -Dsolaris=80000  -DHASPR_GWINDOWS -m64 -DHASIPv6 \
 -DHAS_VSOCK -DLSOF_VSTR="5.8"  -O  -c  dvch.c
In file included from /usr/include/sys/proc.h:31, \
      from /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/ \
 3.2.1/include/sys/user.h:267, from /usr/include/kvm.h:13, \
 from ../dlsof.h:53, from ../lsof.h:172, from dvch.c:43: \
 /homes/abe/gnu/gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/\
  3.2.1/include/sys/task.h:59: parse error before "uint_t"
```

Errors like the above are most likely not problems in the system's
header files, but in the private copies of them
that were created when gcc was made or installed. Note the presense of
".../gcc-3.2.1/lib/gcc-lib/sparcv9-sun-solaris2/3.2.1/include/..."
in the paths for user.h and task.h. It indicates both
header files are gcc-specific.

To solve errors like this requires comparing the header files in the vendor's /usr/include tree to the gcc-specific ones in gcc's private gcc-lib/.../include tree. It may be necessary to regenerate gcc-specific header files, correct them or remove them. See the gcc distribution for the appropriate tools.

A possible temporary work-around is to direct gcc to use the vendor's header files instead of its temporary ones by

declaring -I/usr/include in the compilation flags.

3.2.3 Other header file problems

Don't overlook any vendor tools that might validate the vendor header files installed on the system -- e.g., the Solaris pkgchk tool can be used to check the header files that were installed
from the SUNWhea package.

For other header file problems contact me at <abe@purdue.edu>. Please follow the reporting guidelines in the "How do I report an lsof bug?" section of this FAQ.

3.3 Why doesn't lsof report full path names?

Lsof reports the full path name when it is specified as a search argument for open files that match the argument. However, if the argument is a file system mounted-on directory, and lsof finds additional path name components from the kernel name cache, it will report them.

Lsof reports path name for file system types that have path name lookup features -- e.g., some versions of AdvFS for Digital and Tru64 UNIX. The Linux /proc-based lsof reports full path names, because the Linux /proc file system provides them. Lsof on recent builds of Solaris 10 also report full path names, because those Solaris kernels record the full path name in the vnode structure.

Otherwise, lsof uses the kernel name cache, where it exists and can be accessed,
and reports some or all path name
components (e.g., the sys and proc.h components of /usr/include/sys/proc.h) for these dialects:

Apple Darwin
DC/OSx
FreeBSD
HP-UX, /dev/kmem and PSTAT based
Linux, /dev/kmem-based
NetBSD
NEXTSTEP
OpenBSD
OPENSTEP
Reliant UNIX
SCO OpenServer
SCO|Caldera UnixWare

Solaris 2.x, 7, 8 and 9 (except for some VxFS versions;
see the "Why doesn't Solaris
lsof report VxFS path name
components?" section for more
information)
Solaris 10 (early builds) Tru64 UNIX

As far as I can determine, AFS path lookups don't share in kernel name cache operations, so lsof can't identify open AFS path name components. Apparently Solaris VxFS versions 4 and above don't share in kernel name cache operations, either, so lsof can't display path name components for those open files.

Since the size of the kernel name cache is limited and the cache is in constant flux, it does not always contain the names of all components
in an open file's path; sometimes it contains
none of them.

Lsof reports the file system directory name and whatever components of the file's path it finds in the cache, starting with the last component and working backwards through the directories that contain it. If lsof finds no path components, lsof reports the file system device name instead.

When lsof does report some path components in the NAME column, it prefixes them with the file system directory name, followed by " -- ", followed by the components -- e.g., /usr -- sys/path.h for /usr/include/sys/path.h. The " -- " is omitted when lsof finds all the path name components of a file's name.

The PSTAT-based HP-UX lsof relies on kernel name cache contents, too, even though its information comes to lsof via pstat() function calls. Consequently, PSTAT-based HP-UX lsof won't always report full paths, but may use the " -- " partial path name notation, or may occasionally report no path name at all but just
the file system mounted-on
directory and device names.

Lsof can't obtain path name components from the kernel name caches of the following dialects:

AIX

Only the Linux kernel records full path names in the structures it maintains about open files; instead, most

kernels convert path names to device and node number doublets and use them for subsequent file references once files have been opened.

To convert the device and node number doublet into a complete path name, lsof would have to start at the root node (root directory) of the file system on which the node resides, and search every branch for the node, building possible path names along the way. That would be a time consuming operation and require access to the raw disk device (usually implying setuid-root permission).

If the prospect of all that local disk activity doesn't concern you, think about the cost when the device is NFS-mounted.

Try using the file system mount point and node number lsof reports
as parameters to find -- e.g.,

```
$ find <mount_point> -inum <node_number> -print
```

and you may get an appreciation of what a file system directory tree search would cost.

3.3.1 Why do lsof -r reports show different path names?

When you run lsof with its repeat (``-r'') option, you may notice that the extent to which it reports path names for the same files may vary from cycle to cycle. That happens because other processes are making kernel calls affecting the cache and causing entries to be removed from and added to it.

3.3.2 Why does lsof report the wrong path names?

Under some circumstances lsof may report an incorrect path name component, especially for files in a rapidly changing directory like /tmp.

In a rapidly changing directory, like /tmp, if the kernel doesn't clear the cache entry when it removes a file, a new file may be given the same keys and lead lsof to believe that the old cache entry with the same keys belongs to the new file.

Lsof tries

to avoid this error by purging duplicate entries
from its copy of the kernel name cache when they have the
same device and inode number, but different names.

This error is less likely to occur in UNIX dialects where the
keys to the name cache are node address and possibly a
capability ID. The Apple Darwin, Digital UNIX, FreeBSD, HP-UX,
NEXTSTEP, OPENSTEP, Solaris, Tru64 UNIX, and UnixWare dialects
use node address. Apple Darwin, FreeBSD, NetBSD, OpenBSD,
Tru64 UNIX, and also use a capability ID to further identify
name cache entries.

3.3.3 Why doesn't lsof report path names for unlinked (rm'd) files?

When lsof gets path name components from the kernel's name
cache, it does not report the path names of a file that has
been unlinked from its parent directory -- e.g., deleted via
rm, or the unlink() system call -- even when some process may
still hold the file open; lsof reports only the file system's
mounted-on directory and device. That's because path name
components
are removed from the kernel name cache when the file
is unlinked.

Unlinked open files are sometimes used by applications for
temporary, but invisible storage (i.e., ls won't show them,
and no other process can open them.) However, they may
occasionally consume disk space to excess and cause concern
for a system administrator, who will be unable to locate
them with find, ls, du, or other tools that rely on finding
files by examining the directory tree.

By using lsof's +L option you can see the link count of
open files -- in the NLINK column. An unlinked file will
have an NLINK value of zero. By using the option +L1 you
can tell lsof to display only files whose link count is
less than one (i.e., zero).

There are some UNIX dialect-specific exceptions to lsof's
inability to report unlinked path names. They are described in
the answer to the "When will lsof report path names for deleted
files?" question.

3.3.4 Why doesn't lsof report the "correct" hard linked file
path
name?

When lsof reports a rightmost path name component for a

file with hard links, the component may come from the kernel's name cache. Since the key which connects an open file to the kernel name cache may be the same for each differently named hard link, lsof may report only one name for all open hard-linked files. Sometimes that will be "correct" in the eye of the beholder; sometimes it will not. Remember, the file identification keys significant to the kernel are the device and node numbers, and they're the same for all the hard linked names.

3.3.5 When will lsof report path names for deleted files?

Lsof will report path names for deleted files for two dialects: Linux and later builds of Solaris 10.

Deleted Linux path names are reported by default and have "(deleted)" at their ends.

The display of Solaris 10 deleted path names may be selected with the -X option. When selected they are also reported with "(deleted)" at their ends.

3.4 Why is lsof so slow?

Lsof may appear to be slow if network address to host name resolution is slow. This can happen, for example, when the name server is unreachable, or when a Solaris PPP cache daemon is malfunctioning.

To see if name lookup is causing lsof to be slow, turn it off with the ``-n'' option.

Port service name lookup or portmap registration lookup may also be causes of slow-down. To suppress port service name lookup, specify the ``-P'' option.

Lsof doesn't usually make direct portmap calls -- only when +M is specified, or when HASPMAPENABLED is defined during lsof construction. (The lsof help panel, produced with `lsof -h` will display the default portmap registration reporting state.) The quickest first step in checking if lsof is slow because of the portmapper is to use lsof's ``-M'' option.

Lsof may be slow if UID to login name lookups are slow. Suppress them with ``-l''.

On dialects where lsof uses the kernel name cache, try

disabling its use with ``-C''.
(You can tell if lsof uses the
kernel name cache by looking for ``-C'' in lsof's ``-h''
output.) Of course, disabling kernel name cache use will mean
that lsof won't report full or partial path names, just file
system and character device names.

If you're just interested in the open files of one process, try
using the ``-p <Process-ID>'' option to limit lsof to that
process. (The ``-p'' option may also be followed with a list
of Process-IDs.)

If you're interested in including or excluding certain
commands, try lsof's "-c[^]cmd" option.

If you're interested in certain Internet TCP and UDP states
(e.g., ESTABLISHED) or in excluding some (e.g., CLOSE_WAIT),
try lsof's "-s p:s" option, available where shown on the lsof
help output, obtained with -h or -?. More information on it
may be found in the answer to the "How are protocol state name
exclusion and inclusion used?" question.

Your UNIX dialect may not support "-s p:s" and its associated
performance improvments
to Internet-only file processing. You
can find more information on those topics in the answer to the
"Why doesn't my dialect support state name exclusion and
inclusion?" question.

Older AIX lsof may be slow to start because of its oslevel
identity comparison. (Newer AIX lsof uses uname(2).) See the
"Why does AIX lsof start so slowly?" and "Why does lsof warn
"compiled for x ... y; this is z.?" sections for more
information.

3.5 Why doesn't lsof's setgid or setuid permission work?

If you install lsof on an NFS file system that has been
mounted with the nosuid option, lsof may not be able to
use the setgid or setuid permission you give it, complaining
it can't open the kernel memory device -- e.g., /dev/kmem.

The only solution is to install lsof on a file system that
doesn't inhibit setgid or setuid permission.

3.6 Does lsof have security problems?

I don't think so. However, lsof does usually start with

setgid permission, and sometimes with setuid-root permission. Any
program that has setgid or setuid-root permission,
should always be regarded with suspicion.

Lsof drops setgid power, holding it only while it opens
access to kernel memory devices (e.g., /dev/kmem, /dev/mem,
/dev/swap). That allows lsof to bypass the weaker security
of access(2) in favor of the stronger checks the kernel
makes when it examines the right of the lsof process to
open files declared with -k and -m. Lsof also restricts
some device cache file naming options when it senses the
process has setuid-root power.

On a few dialects lsof requires setuid-root permission
during its full execution in order to access files in the
/proc file system. These dialects include:

DC/OSx 1.1 for Pyramid systems
Reliant UNIX 5.4[34] for Pyramid systems

When lsof runs with setuid-root permission it severely
restricts all file accesses it might be asked to make with
its options.

The device cache file (typically .lsof_hostname in the home
directory
of the real user ID that executes lsof) has 0600
modes. (The suffix, hostname, is the first component of
the host's name returned by gethostname(2).) However, even
when lsof runs setuid-root, it makes sure the file's
ownerships are changed to that of the real user and group.
In addition, lsof checks the file carefully before using
it (See the question "How do I disable the device cache
file feature or alter it's behavior?" for a description of
the checks.); discards the file if it fails the scrutiny;
complains about the condition of the file; then rebuilds
the file.

See the 00DCACHE file of the lsof distribution for more
information about device cache file handling and the risks
associated with the file.

3.7 Will lsof show remote hosts using files via NFS?

No. Remember, lsof displays open files for the processes
of the host on which it runs. If the host on which lsof
is running is an NFS server, the remote NFS client processes

that are accessing files on the server
leave no process
records on the server for lsof to examine.

3.8 Why doesn't lsof report locks held on NFS files?

Generally lock information held by local processes on remote NFS files is not recorded by the UNIX dialect kernel. Hence, lsof can't report it.

One exception is some patch levels of Solaris 2.3, and all versions of Solaris 2.4 and above. Lsof for those dialects does report on locks held by local processes on remotely mounted NFS files.

3.8.1 Why does lsof report a one byte lock on byte zero as a full file lock?

When a process has a lock of length one, starting at byte zero, lsof can't distinguish it from a full file lock. That's because most UNIX dialects represent both locks the same way in their file lock (flock or eflock) structures.

3.9 Why does lsof report different values for open files on the same file system (the automounter phenomenon)?

On UNIX dialects where file systems may be mounted by an automounter with the ``direct'' type, lsof may
sometimes
report difference DEVICE, SIZE/OFF, INODE and NAME values when asked to report files open on the file system.

This happens because some files open on the file system -- e.g., the current directory of a shell that changed its directory to the file system as the file system's first reference -- may be characterized in the kernel with temporary automounter node information. The cd doesn't cause the file system to be mounted.

A subsequent reference to the file system -- e.g., an ls of any place in it -- will cause the file system to be mounted. Processes with files open to the mounted file system are characterized in the kernel with data that reflects the mounted file system's parameters.

Unfortunately some kernels (e.g., some versions of Solaris 2.x) don't revisit the process that did only a change-directory for the purpose of updating the data associated with the

open directory file. The file continues to be characterized
with temporary automounter information
until it does another
directory change, even a trivial ``cd .".

Lsof will report on both reference types, when supplied
the file system name as an argument, but the data lsof
reports will reflect what it finds in the kernel. For the
different types lsof will display different data, including
different major and minor device numbers in the DEVICE
column, different lengths in the SIZE/OFF column, different
node numbers in the INODE column, and slightly different
file system names in the NAME column.

In contrast, fuser, where available, can only report on
one reference type when supplied the file system name as
an argument. Usually it will report on the one that is
associated with the mounted file system information. If
the only reference type is the temporary automounter one,
fuser will often be silent about it.

3.10 Why don't lsof and netstat output match?

Lsof and netstat output don't match because lsof reports
the network information it finds in open
file system objects
-- e.g., socket files -- while netstat often gets its
information from separate kernel tables.

The information available to netstat may describe network
activities never or no longer associated with open files,
but necessary for proper network state machine operation.

For example, a TCP connection in the FIN_WAIT_[12] state
may no longer have an associated open file, because the
connection has been closed at the application layer and is
now being closed at the TCP/IP protocol layer.

3.10.1 Why can't lsof find accesses to some TCP and UDP ports?

Lsof stands for LiSt Open Files. If there is no open file
connected to a TCP or UDP port, lsof won't find it. That's
the most common reason why lsof doesn't find a port netstat
might report open.

One reason I've found on some UNIX dialects is that their
kernels set aside TCP and UDP ports for communicating with
support activities, running in application layer servers

-- the automounter daemons, and the
NFS biod and nfsd
daemons are examples. Netstat may report the ports are in
use, but lsof doesn't.

Another reason is that netstat may also be able to report
a port is open on a particular dialect, because it uses a
source of data different from what lsof uses -- e.g.,
netstat might examine kernel tables or use streams messages
to MIB2, while lsof relies on the information it finds in
open file structures and their descendants.

Sometimes it's possible to search the data netstat and lsof
use. For example, on Linux /proc/tcp and /proc/udp can be
examined. There might an entry there for a particular
protocol and port, but if the line on which the port appears
doesn't have an inode number that matches an inode number
of an open file, lsof won't be able to identify the process
using the port.

This is a tough question to which there is no easy answer.

3.11 Why does lsof update the device cache file?

At the end of the lsof output you may see the message:

    lsof:
WARNING: /Homes/abe/.lsof_vic was updated.

In this message /Homes/abe/.lsof_vic is the path to the
private device cache file for login abe. (See 00DCACHE.)

Lsof issues this message when it finds it necessary to
recheck the system device directory (e.g., /dev or /devices)
and rebuild the device cache file during the open file
scan. Lsof may need to do these things it finds that a
device directory node has changed, or if it cannot find a
device in the cache.

3.12 Why doesn't lsof report state for UDP socket files?

Lsof reports UDP TPI connection state -- TS_IDLE (Idle),
TS_BOUND (Bound), etc. -- for some, but not all dialects.
TPI state is stream-based TCP/IP information that isn't
available in many dialects.

A fairly weak general rule is if netstat(1) reports UDP
TPI state, lsof may be able to report it, too. But don't

be surprised if lsof fails to report UDP TPI state for your dialect. Other factors influence lsof's ability to report UDP TPI state, including the availability of state number data in kernel structures, and state number to state name conversion data.

3.13 I am editing a file with vi; why doesn't lsof find the file?

Classic implementations of vi usually don't keep open the file being edited. (Newer ones may do so in order to maintain an advisory lock.) Instead classic vi opens the file, makes a temporary copy (usually in /tmp or /usr/tmp), and does its work in that file. When you save the file being edited from a classic vi implementation, it reopens and rewrites the file.

During a classic vi session, except for the brief periods when vi is reading or rewriting the file, lsof won't find an open reference to the file from the vi process, because there is none.

3.14 Why doesn't lsof report TCP/TPI window and queue sizes for my dialect?

Lsof only reports TCP/TPI window sizes for Solaris, because only its netstat reports them. The intent of providing TCP/TPI information in lsof NAME column output is to make it easier to match netstat output to lsof output.

In general lsof only reports queue sizes for both TCP and UDP (TPI) connections on BSD-derived UNIX dialects, where both sets of values appear in kernel socket queue structures. SYSV-derived UNIX dialects whose TCP/IP implementations are based on streams generally provide only TCP queue sizes, not UDP (TPI) ones.

While you may find that netstat on some SYSV-derived UNIX dialects with streams TCP/IP may report UDP (TPI) queue sizes, you will probably also find that the sizes are always zero -- netstat supplies a constant zero for UDP (TPI) queue sizes to make its headers align the same for TCP and UDP (TPI) connections. Solaris seems to get it right -- i.e., its netstat does not report UDP (TPI) queue sizes.

When in doubt, I chose to avoid reporting UDP (TPI) queue sizes for UNIX dialects whose netstat-reported values I knew to be a constant zero or whose origin I couldn't

determine. OSR is a dialect in this category.

3.14.1 Why
doesn't lsof report socket options, socket states, and TCP
flags and values for my dialect?

The lsof -T argument, 'f', that selects the reporting of socket
options, socket states and TCP flags was implemented at lsof
revision 4.71 for the following UNIX dialects, providing the
indicated information:

   AIX 4.3.2 and 5.1 and above
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
   Apple Darwin 7.2 and above
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
   Digital UNIX and Tru64 UNIX 4.0
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
   FreeBSD 4.9 and above
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
   HP-UX 11.00 (/dev/kmem-based lsof)
All socket options and values are reported. No socket
states
are reported. Only the TF_NODELAY TCP flag and
the TF_MSS value are reported.
   HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
All socket options and values, and socket states are
reported. No TCP flags or values are reported.
   Linux
No socket options and values, socket states, or TCP
flags and values are reported. The support for "-Tf"
could not be added to Linux, because socket options,
socket states, and TCP flags and values are not
available via the /proc file system.
   NetBSD 1.6G and above
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
   OpenBSD 3.4 and above
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
   OPENSTEP 4.2
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
   OpenUNIX 8
All socket options and values, socket states, and TCP

flags and values described
in lsof(8) are reported.
SCO OpenServer Release 5.0.6
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.
Solaris 2.6, 8 and above
The socket option display is limited to BROADCAST,
DEBUG, DGRAM_ERRIND, DONTROUTE and OOBINLINE. Socket
values are limited to KEEPALIVE and LINGER. No socket
states are reported. The TCP DELACK, NODELAY and
SENTFIN flags are reported. The TCP MSS value is
reported.
UnixWare 7.1.[134]
All socket options and values, socket states, and TCP
flags and values described in lsof(8) are reported.

3.14.2 Why doesn't lsof report the partial listen queue connection
count for my dialect?

The reporting of partial listen queue connections was added to
-Tf processing at lsof revision 4.76. Currently it is reported
for these dialects:

AIX 4.3.2
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
AIX 5.1
and above
Partial listen queue information is available.
Apple Darwin 7.2 and above
Partial listen queue information is available.
Digital UNIX 4.0
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
FreeBSD 4.9 and above
Partial listen queue information is available.
HP-UX 11.00 (/dev/kmem-based lsof)
No partial listen queue information is available.
HP-UX 11.11 and iiiv2 (PSTAT-based lsof)
No partial listen queue information is available.
Linux
No partial listen queue information is available.
NetBSD 1.6G and above
Partial listen queue information is available.
OpenBSD 3.4 and above
Partial listen queue information is available.

OPENSTEP 4.2
Partial listen queue information is available.
OpenUNIX 8
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
SCO OpenServer Release 5.0.6
No
partial listen queue information is available.
Solaris 2.6, 8 and above
Partial listen queue information is available.
Tru64 UNIX 5.0
This dialect is no longer supported, so no attempt
was made to add partial listen queue length support
for it.
Tru64 UNIX 5.1
Partial listen queue information is available.
UnixWare 7.1.[134]
Partial listen queue information is available.

3.15 What does "no more information" in the NAME column mean?

When lsof can find no successor structures -- a gnode,
inode, socket, or vnode -- connected to the file structure
of an open descriptor of a process, it reports "no more
information" in the NAME column. The TYPE, DEVICE, SIZE/OFF,
and INODE columns will be blank.

Because the file structure is supposed to contain a pointer
to the next structure of a file's processing support, if
the pointer is NUL, lsof can go no further.

Some UNIX dialects have file structures for system processes
-- e.g., the sched process --
that have no successor
structure pointers. The "no more information" NAME will
commonly appear for these processes in lsof output.

It may also be the case that lsof has read the file structure
while it is being assembled and before a successor structure
pointer value has been set. The "no more information" NAME
will again result.

Unless lsof output is filled with "no more information"
NAME column messages, the appearance of a few should be no
cause for alarm.

3.16 Why doesn't lsof find a process that ps finds?

If lsof fails to display open files for a process that ps indicates exists, there may be several reasons for the difference.

The process may be a "zombie" for which ps displays the "(defunct)" state. In that case, the process has exited and has no open file information lsof can display. It does still have a process structure, sufficient for the needs of ps.

Another possible explanation is that kernel tables and structures may have been changing when lsof looked for the process, making lsof unable to find all relevant process structures. Try repeating the lsof request.

3.17 Why doesn't -V report a search failure?

The usual reason that -V won't report a search failure is that lsof located the search item, but was prevented from listing it by an option that doesn't participate in search failure reporting.

For example, this lsof invocation:

```
$ lsof -V -i TCP@foobar -a -d 999
```

won't report it can't find the Internet address TCP@foobar, even if there is an open file connected to that address, unless the open file also has a file descriptor number of 999 (the ``-a -d 999'' options).

Compile-time options can also affect -V results in much the same way. For example, if HASSECURITY and HASNOSOCKSECURITY are defined at compile time, this lsof invocation, run by a non-root user:

```
$ lsof -V -c inetd
```

won't report that it can't find the inetd command, even if there is a process running the inetd command, because the HASSECURITY and HASNOSOCKSECURITY options prevent the listing of all but the socket files of another user, and no socket file selector (e.g., "-i") was specified.

3.18 Portmap problems

3.18.1 Why isn't a name displayed for the portmap registration?

When portmap registration reporting is enabled, any time there is a registration for a local TCP or UDP port, lsof displays it in square brackets, following the port number or service name -- e.g., ``:1234[name]'' or ``:name[100083]''.

The TCP or UDP port number or service number (what follows the `:') is displayed under the control of the lsof -P option. The registration identity is held by the portmapper and may be a name or a number, depending on how the registration's owner declared it. Lsof reports what the port map holds and cannot derive a registration name from a registration number.

Lsof can be compiled with registration reporting enabled or disabled by default, under the control of the HASPMAPENABLED #define
(usually in machine.h). The lsof help panel (`lsof -h`) will show the default. Lsof is distributed with reporting disabled by default.

3.18.2 How can I display only portmap registrations?

Lsof doesn't have an option that will display only TCP or UDP ports with portmap registrations. The +M option only enables the reporting of registration information when Internet socket files are displayed; +M doesn't select the displaying of Internet socket files -- the -i option does that.

This simple lsof pipe to grep will do the job:

```
$ lsof -i +M | grep "\["
```

This works because -i selects Internet socket files, +M enables portmap registration reporting, and only output lines with opening square brackets will have registrations.

When portmap registration reporting is enabled by default, because the lsof builder constructed it that way, +M is not necessary. (The lsof help panel, produced with `lsof -h` will display the default portmapper registration reporting state.)

However, specifying +M when reporting
is already enabled is acceptable, as is specifying -M when
reporting is already disabled.

Digression: lsof will accept `+' or `-' as a prefix to most
options. (That isn't documented in the man page or help
panel to reduce confusion and complexity.) The -i option
is as acceptable as +i, so the above example could be
written a little more tersely as:

$ lsof +Mi | grep "\["

But be careful to use the ``Mi'' ordering, since ``iM''
implies M is an address argument to `i'.

3.18.3 Why doesn't lsof report portmap registrations for some ports?

Lsof reports portmap registrations for local TCP and UDP
ports only. It identifies local ports this way:

* The port appears in the local address section of the
  kernel structure that contains it.

* The port appears in the foreign address section of a
  kernel structure whose local and foreign Internet
  addresses are the same.

* The port appears in the foreign address section
of a
  kernel address structure whose Internet address is
  INADDR_LOOPBACK (127.0.0.1).

Following these rules, lsof ignores foreign portmapped
ports. That's done for reasons of efficiency and possible
security prohibitions. Contacting all remote portmappers
could take a long time and be blocked by network difficulties
(i.e., be inefficient). Many firewalls block portmapper
access for security reasons.

Lsof may occasionally ignore portmap registration information
for a legitimate local port by virtue of its local port
rules. This can happen when a port appears in the foreign
part of its kernel structure and the local and foreign
Internet addresses don't match (perhaps because they're on
different interfaces), and the foreign Internet address
isn't INADDR_LOOPBACK (127.0.0.1).

3.18.4 Why doesn't lsof report portmap registrations for some Solaris

versions?

In some versions of Solaris -- 9 and 10 are known to exhibit this problem -- lsof is unable to display portmap registrations.

This portmap registration reporting failure occurs when the Solaris netconfig field (in /etc or etc/inet) has its first two non-comment lines enabling tcp6 and udp6. When netconfig is configured in that fashion, lsof's attempt to read the portmap via an RPC function fails.

I don't have an explanation for the failure, but this comment in the netconfig(4) man page appears to have some bearing on the problem:

```
# The following two entries starting with udp6 and tcp6 are
# meant to be used for IPv6. If you have Ipv6 enabled on your
# machine then you can uncomment these two lines to enable
# RPC and NFS to use the Ipv6 stack.
...
#udp6  tpi_clts      v  inet6  udp  /dev/udp6  -
#tcp6  tpi_cots_ord  v  inet6  tcp  /dev/tcp6  - "
```

My interpretation of that comment is that there is a different RPC interface to the portmap when IPv6 is enabled. However, I can't find any documentation on it in the RPC man pages. If anyone has
information on it, please send it to me at <abe@purdue> and put "lsof Solaris portmap" in the subject line.

A work-around may be to move the ucp6 and tcp6 lines after the udp and tcxp lines in netconfig. I don't know if that change has any unacceptable consequences, but it works for me on my Solaris 9 test system, and I have a report that it also works on Solaris 10.

3.19 Why is `lsof | wc` bigger than my system's open file limit?

There is a strong temptation to count open files by piping lsof output to wc. If your purpose is to compare the number you get to some Unix system parameter that defines the number of open files your system can have, resist the temptation.

One reason is that lsof reports a number of "files" that

don't occupy Unix file table space -- current working
directories, root directories, jail directories, text files,
library files, memory mapped files are some. Another reason
is that lsof can report a file shared by more than one
process that
itself occupies only one file table slot.

If you want to know the number of open files that occupy
file table slots, use the +ff option and process the lsof
output's FILE_ADDR column information with standard Unix
tools like cut, grep, sed, and sort.

You might also consider using use lsof's field output with
+ff, selecting the file struct address with -FF, and
processing the output with an AWK or Perl script. See the
list_fields.awk, list_fields.perl, and shared.perl5 scripts
in the scripts/ subdirectory of the lsof distribution for
hints on file struct post-processing filters.

3.20 Why doesn't lsof report file offset (position)?

Lsof won't report a file offset (position) value if the -s
option (without parameters) has been specified, or if the
dialect doesn't support the displaying of file offset
(position). (Note that on selected dialects the help output,
obtained with -h or -?, may show that the -s option can also be
supplied the "p:s" parameters; for more
information on that
addition, see the answer to the "How are protocol state name
exclusion and inclusion used?" question.)

That lsof is reporting only file size is indicated by the
fact that the appropriate column header says SIZE instead
of SIZE/OFF.

If lsof doesn't support the displaying of file offset
(position) -- e.g., for Linux /proc-based lsof -- the -h
or -? output panel won't list the -o option.

Sometimes the availability of file offset information
depends on the dialect's kernel. This is particularly true
for socket file offsets.

Maintenance of offsets for pseudo-terminal devices varies
by UNIX dialect and is related to how the dialect kernel
implements pseudo-terminal support. Kernels like AIX, for
example, that short-circuit the transfer of data between
socket and pseudo devices to reduce TCP/IP daemon interrupt

rates won't advance offsets in the TCP/IP daemon socket
files. Instead they will advance offsets in the open
standard I/O files of the shell
child precess where the
pseudo-terminal devices are used.

When in doubt about the behavior of lsof in reporting file
offset information, do some carefully measured experiments,
consult the lsof sources, or contact me at <abe@purdue.edu>
to discuss the matter. Please follow the reporting guidelines
in the "How do I report an lsof bug?" section of this FAQ.

3.20.1 What does lsof report for size when the file doesn't really have one?

When a file has no true size -- e.g., it's a socket, a
FIFO, or a pipe -- lsof tries to report the information it
finds in the kernel that describes the contents of associated
kernel buffers.

Thus, for example, size for most TCP/IP files is socket
buffer size. The size of the socket read buffer is reported
for read-only files; the size of the write buffer for
write-only files; and the sum of the buffers sizes for
read-write files.

3.21 Problems with path name arguments

3.21.1 How do I ask lsof to search a file system?

You can ask
lsof to search for all open files on a file
system by specifying its mounted path name as an lsof
argument -- e.g.,

```
$ lsof /
```

Output of the mount command will show file system mounted
path names. It will also show the mounted-on device path
for the file system.

If the mounted-on device is a block device (the permission
field in output of `ls -l <device>` starts with a `b/),
you can specify it's name, too -- e.g.,

```
$ lsof /dev/sd0a
```

If the mounted-on device isn't a block device -- for example,

some UNIX dialects call a CD-ROM device a character device (ls output starts with a `c') -- you can force lsof to assume that the specified device names a file system with the +f option -- e.g.,

```
$ lsof +f -- /dev/sd0a
```

(Note: you must use ``--" after +f or -f if a file name follows immediately, because +f and -f can be followed by characters that specify flag output selections.)

When you use +f and lsof can't match the device to a file system, lsof will issue a complaint.

The +f option may be used in some dialects to ask lsof to search for an NFS file system by its server name and server mount point. If the mount application reports an NFS file system mounted-on value that way, then this sample lsof request should work.

```
$ lsof +f -- fleet:/home/fleet/u5
```

Finally, you can use -f if you don't want a mounted file system path name to be considered a request to report all open files on the file system. This is useful when you want to know if anyone is using the file system's mounted path name. This example directs lsof to report on open access to the `/' directory, including when it's being used as a current working or root directory.

```
$ lsof -f -- /
```

The lsof -f option performs the same function as -f does in some fuser implementations. However, since the lsof -c option was chosen for another purpose before the `f' option was added to lsof, +f was selected as the analogue to the fuser -c option. (Sorry for the potential confusion.)

3.21.2 Why doesn't lsof find all the open files in a file system?

Lsof may not find all the open files in a file system for several reasons.

First, some processes with files open on the file system may have been changing status when lsof examined the process table, and lsof "missed" them. Remember, the kernel changes

much faster than lsof can respond to the changes.

Second, be sure you have specified the file system correctly.
Perhaps you specified a file instead. You can use lsof's
-V option to have lsof report in detail on what it couldn't
find. Make sure the report for the file system you specified
says "file system." Here's some -V output:

```
$ /lsof -V /tmp ./lsof.h ./lsof
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
lsof    2688  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof    2689  abe  txt   VREG 18,1,7  1428583 226641 ./lsof
lsof: no file use located: ./lsof.h
```

You can also use lsof's +f option
to force it to consider
a path name as a file system. If lsof can't find a file
system by the specified name, it will issue a complaint --
e.g.,

```
$ lsof +f -- /usr
lsof: not a file system: /usr
```

(/usr is a directory in the / file system.)

3.21.3 Why does the lsof exit code report it didn't find open files
when some files were listed?

Sometimes lsof will list some open files, yet return a
non-zero exit code, suggesting it hasn't found all the
specified files.

The first thing you should when you suspect lsof is incorrect
is to repeat the request, adding the -V option. In the
resulting report you may find that your file system
specification really wasn't a file system specification,
just a file specification.

Finally, if you specify two files or two file systems twice,
lsof will credit all matches to the first of the two and
believe that there were no matches for the second. It's
possible to specify a single file system twice with different
path names
by using both its mounted directory path name
and mounted-one device name.

```
$ lsof +f -V spcuna:/sysprog /sysprog
COMMAND   PID USER   FD   TYPE DEVICE SIZE/OFF  INODE NAME
```

```
ksh   11092  abe  cwd   VDIR 39,0,1    1536 226562 /sysprog
(spcuna:/sysprog)
...
lsof: no file system use located: spcuna:/sysprog
```

All matches were credited to /sysprog; none to spcuna:/sysprog.

3.21.4 Why won't lsof find all the open files in a directory?

When you give lsof a simple directory path name argument (not a file system mounted-on name), you are asking it to search for processes that have the directory open as a file, or as a process-specific directory -- e.g., root or current working directory.

If you want to list instances of open files inside the directory, you need to specify the individual path names of those files, or use the lsof +D and +d options.

See the answer to the question "Why are the +D and +d options so slow?" before you use +D or +d casually.

See the answer to the question "Why do the +D and +d options produce warning messages?" for an explanation of some process authority limitations of +D and +d.

3.21.5 Why are the +D and +d options so slow?

The +D and +d options cause lsof to build a path name search list for a specified directory. +D causes lsof to descend the directory to its furthest subdirectory, while +d restricts it to the top level. In both cases, the specified directory itself is included in the search list. In both symbolic links are ignored.

Building such a search list can take considerable time, especially when the specified directory contains many files and subdirectories -- lsof must call the system readlink() and stat() functions for each file and directory. Storing the search list can cause lsof to use more than its normal amount of dynamic memory -- each file recorded in the search list consumes dynamic memory for its path name, characteristics, and search linkages. Using the list means lsof must search it for every open file in the system.

Building the search list for a directory specified on some

file systems can be slow -- e.g., for an NFS directory with
many files. Some file systems have special logging features
that can introduce additional delays to the building of
the search list -- e.g., NFS logging, or logging on a
Solaris UFS file system. The bottom line is that slow
search list construction may not be so much an lsof problem
as a file system problem. (Hint: if you're using Solaris
UFS logging, consider specifying the "logging,noatime"
option pair to reduce the number of atime writes to the
UFS logging queue and disk.)

A somewhat risky way to speed up lsof's building of the
search list is to use lsof's ``-O" option. It forces lsof
to do all system calls needed to build the search list
directly, rather than in a child process. While direct
system calls are much faster, they can block in the kernel
-- e.g., when an NFS
server stops responding -- stopping
lsof until the kernel operation unblocks.

As an example of the load +D can impose, consider that an
`lsof +D /` on a lightly loaded NeXT '040 cube with a 1GB
root file system disk took 4+ minutes of real time. It
also generated several hundred error messages about files
and directories the lsof process didn't have permission to
access with stat(2).

The bottom line is that +D and +d should be used cautiously.
+D is more costly than +d for deeply nested directory trees,
because of the full directory descent it causes. So use
+d where possible. And you might need to consider the
performance of the file system that holds the directory
you name with +d or +D.

In view of these warnings, when is it appropriate to use
+D or +d? Probably the most appropriate time is when you
would specify the directory's contents to lsof with a shell
globbing construct -- e.g., `lsof *`. If that's what you
need to do, `lsof +d .` is probably more
efficient than
having the shell produce a directory list, form it into an
argument vector, and pass the vector to lsof for it to
unravel.

See the answer to the question "Why do the +D and +d options
produce warning messages?" for an explanation of some
process authority limitations of +D and +d.

3.21.6 Why do the +D and +d options produce warning messages?

+D and +d option processing is limited by the authority of the lsof process -- i.e., lsof can only examine (with lstat(2) and stat(2)) files the owner of the process can access.

If the ownership, group membership, or permissions of the specified directory, file within it, or directory within it prevents the owner of the lsof process from using lstat(2) or stat(2) on it, lsof will issue a warning message, naming the path and giving the system's (lstat(2's or stat(2)'s) reason (errno explanation text) for refusing access.

As an example, assume user abc has a subdirectory in /tmp, owned by abc and readable, writable
and searchable by only
its owner. If user def asks lsof to search for all /tmp references with +D or +d, lsof will be unable to lstat(2) or stat(2) anything in abc's private subdirectory, and will issue an appropriate warning.

Lsof warnings can usually be suppressed with the -w option. However, using -w with +D or +d means that there will be no indication why lsof couldn't find an open reference to a restricted directory or something contained in it.

Hint: if you need to use +D or +d and avoid authority warnings, and if you have super-user power, su and use lsof with +D or +d as root.

3.22 Why can't my C compiler find the rpcent structure definition?

When you try to compile lsof your compiler may complain that the rpcent structure is undefined. The complaints may look like this:

```
>print.c: In function `fill_portmap':
>print.c:213: dereferencing pointer to incomplete type
>...
```

The most likely cause is that someone has allowed a BIND installation
to update /usr/include/netdb.h (or perhaps /usr/include/rpc/netdb.h), removing the rpcent structure definition that lsof expects to find there.

Only Solaris has an automatic work-around. (See dlsof.h

in dialects/sun.). The Solaris work-around succeeds because
there is another header file, <rpc/rpcent.h>, with the rpcent
structure definition, and there is a Solaris C pre-processor
test that can tell when the BIND <netdb.h> is in place and
hence <rpc/rpcent.h> must be included.

Doubtlessly there are similar work-arounds possible in
other UNIX dialects whose header files have been "touched"
by BIND, but in general I recommend restoration of the
vendor's <netdb.h> and any other header files BIND might
have replaced. (I think BIND replaces <resolv.h>,
<sys/bitypes.h>, <sys/cdefs.h> -- and maybe others.)

3.23 Why doesn't lsof report fully on file "foo" on UNIX dialect
"bar?"

Lsof sometimes won't report much information on a given
file, or may even report an error message
in its NAME
column. That's usually because the file is of a special
type -- e.g., in a file system specific to the UNIX dialect
-- and I haven't used a system where the file appeared
during my testing.

If you encounter such a situation, send me e-mail at
<abe@purdue.edu> and we may be able to devise an addition to
lsof that will report on the file in question. Please follow
the reporting guidelines in the "How do I report an lsof bug?"
section of this FAQ. Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

3.24 Why do I get a complaint when I execute lsof that some library
file can't be found?

On systems where the LIBPATH (or the equivalent) environment
variable is used to record the library search path in
executable files when they are built, an incorrect value
may make it impossible for the system to find the shared
libraries needed to load lsof for execution.

This may be particularly true on systems like
AIX >= 4.1.4,
where the lsof Makefile takes the precautionary step of
using the -bnolibpath loader flag to insure that the path
to the private static lsof library is not recorded in the
lsof binary. Should LIBPATH be invalid when lsof is built,
it will be recorded in the lsof binary as the default

library path search order and lead to an inability to find
libraries when lsof is executed.

So, if you get missing library complaints when you try to
execute lsof, check LIBPATH, or whatever environment variable
is used on your system to define library search order in
executable files. Use the tools at your disposal to look
at the library paths recorded in the lsof binary -- e.g.,
chatr on HP-UX, dump on AIX, ldd on Solaris.

Make sure, too, that when the correct library search path
has been recorded in the executable file, the required
library files exist at one or more of the search paths.

3.25 Why does lsof complain it can't open files?

When lsof begins execution,
unless it has been asked to
report only help or version information, typically it will
attempt to access kernel memory and symbol files -- e.g.,
/unix, /dev/kmem. Even though lsof needs only permission
to open these files for reading, read access to them might
be restricted by ownerships and permission modes.

So the first step to diagnosing lsof problems with opening
files is to use ls(1) to examine the ownerships and permission
modes of the files that lsof wants to open. You may find
that lsof needs to be installed with some type of special
ownership or permission modes to enable it to open the
necessary files for reading. See the "Installing Lsof"
section of 00README for more information.

3.26 Why does lsof warn "compiled for x ... y; this is z."?

Unless warnings are suppressed (with -w) or the kernel
identity check symbol (HASKERNIDCK) definition has been
deleted, all but one lsof dialect version (exception:
/proc-based Linux lsof) compare the identity of the
running
kernel to that of the one for which lsof was constructed.
If the identities don't match, lsof issues a warning like
this:

```
lsof: WARNING: compiled for Solaris release 5.7; this is 5.6.
```

Two kernel identity differences can generate this warning
-- the version number and the release number.

Build and running identity differences are usually significant,
because they usually indicate kernels whose structures are
different -- kernel structures commonly change at dialect
version releases. Since lsof reads data from the kernel
in the form of structures, it is sensitive to changes in
them. The general rule is that an lsof compiled for one
UNIX dialect version will not work correctly when run on
a different version.

There are three work-arounds: 1) use -w to suppress the
warning -- and risk missing other warnings; 2) permanently
disable the identity check by deleting the definition of
HASKERNIDCK in the dialect's machine.h header file -- with
the same risk;
or 3) rebuild lsof on the system where it
is to be run. (Deleting HASKERNIDCK can be done with the
Customize script or by editing machine.h.)

Generally checking kernel identity is a quick operation
for lsof. However, it is potentially slow under AIX, where
lsof must run /usr/bin/oslevel. To speed up lsof, use -w
to suppress the /usr/bin/oslevel test. See "Why does AIX
lsof start so slowly?" for more information.

3.27 How can I disable the kernel identity check?

The kernel identity check is controlled by the HASKERNIDCK
definition. When it is defined, most dialects (exclusion:
/proc-based Linux lsof) will compare the build-time kernel
identity with the run-time one.

To disable the kernel identity check, disable the HASKERNIDCK
definition in the dialect's machine.h header file. The
Customize script can be used to do that in its section
about the kernel identity check.

Caution: while disabling the kernel identity check may
result in smaller lsof startup overhead,
it comes with the
risk of executing an lsof that may produce warning messages,
error messages, incorrect output, or no output at all.

3.28 Why don't ps(1) and lsof agree on the owner of a process?

Generally the user ID lsof reports in its USER column is
the process effective user ID, as found in the process
structure. Sometimes that may not agree with what ps(1)

reports for the same process.

There are sundry reasons for the difference. Sometimes ps(1) uses a different source for process information, e.g., the /proc file system or the psinfo structure. Sometimes the kernel is lax or confused (e.g., Solaris 2.5.1) about what ID to report as the effective user ID. Sometimes the system carries only one user ID in its process structure (some BSD derivatives), leaving lsof no choice.

The differences between lsof and ps(1) user identifications should be small and normally it will be apparent that the confusion is over a process whose application has changed to an effective user ID different from the real one.

3.29 Why doesn't lsof find an open socket file whose connection state is past CLOSE_WAIT?

TCP/IP connections in states past CLOSE_WAIT -- e.g., FIN_WAIT_1, CLOSING, LAST_ACK, FIN_WAIT_2, and TIME_WAIT -- don't always have open files associated with them. When they don't, lsof can't identify them. When the connection state advances from CLOSE_WAIT, sometimes the open file associated with the connection is deleted.

3.30 Why don't machine.h definitions work when the surrounding comments are removed?

The machine.h header files in dialect subdirectories have some commented-out definitions like:

```
/* #define HASSYSDC "/your/choice/of/path */
```

You can't simply remove the comments and expect the definition to work. That's intended to make you think about what value you are assigning to the symbol. The assigned value might have a system-specific convention. HASSYSDC, for example, might be /var/db/lsof.dc for FreeBSD, but it might be /var/adm/lsof.dc for Solaris.

Symbols defined in the lsof documentation are described in 00PORTING, other machine.h comments, and other lsof documentation files. HASSYSDC, for example, is discussed in 00DCACHE. When comments and documentation don't suffice, consult the source code for hints on how the symbol is used.

3.31 What do "can't read inpcb at 0x...", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE", etc. mean?

Sometimes lsof will report "can't read inpcb at 0x00000000", "no protocol control block", "no PCB, CANTSENDMORE, CANTRCVMORE" or a similar message in the NAME column for open TCP socket files. These messages mean the file's socket structure lacks a pointer to the INternet Protocol Control Block (inpcb) where lsof expects to find connection addresses -- local and foreign ports, local and foreign IP addresses. The socket file has probably been submitted to the shutdown(2) function for processing.

In some implementations lsof issues the "no PCB, CANTSENDMORE, CANTRCVMORE" message, which tries to explain the absence of a protocol control block by showing the socket state settings that have been made by the shutdown(2) function.

If a non-zero address follows the "0x" in the "can't read inpcb" message, it means lsof couldn't read inpcb contents from the indicated address in kernel memory.

3.32 What do the "unknown file system type" warnings mean?

Lsof may report a message similar to"

```
unknown file system type, v_op: 0x10472f10
```

in the NAME column for some files.

This means that lsof has encountered a vnode for the file whose operation switch address (from v_op) references a file system type for which there is no support in lsof. After lsof identifies the file system type, it uses pre-compiled code to locate the file system specific node for the file where lsof finds information like file size, device number, node number, etc.

To get some idea of what the file system type might be, use nm on your kernel symbol file to locate the symbol name that corresponds to the v_op address -- e.g., on Solaris do:

```
$ nm -x /dev/ksyms | grep 0x10472f10
0x10472f10 ... |file_system_name_vnodeops
```

Where "file_system_name" is the clue to the unsupported
file system.

Lsof doesn't use the v_op address to identify file system
types on all dialects. Sometimes it uses an index number
it finds in the vnode. It will translate that symbol to
a short name in the warning message -- e.g., "nfs3" -- if
possible.

3.33 Installation

3.33.1 How do I install lsof?

There is no "standard" way to install lsof. Too much
depends on local conditions for me to be able to provide
working install rules in the lsof make files. (The skeleton
install rules you will find just give "hints.") See the
"Installing Lsof" section of 00README for a fuller explanation.

To install lsof you will need to consider these questions:

* Who should be able to use lsof? (See HASSECURITY and

  HASNOSOCKSECURITY in the "Security" section of 00README.)

* Where should lsof be installed? This is a decision
  mostly dictated by local conditions. Somewhere in
  /usr/local -- etc/ or sbin/ -- is a common choice.

* What permissions should I give the lsof executable?
  The answer to this varies by dialect. The make files
  have install rules that give hints. The "Installing
  Lsof" section of 00README gives information, too.

* What if I want to install lsof in a shared file system
  for machines that require different lsof configurations?
  See the next question and answer, "How do I install a
  common lsof when I have machines that need differently
  constructed lsof binaries?"

3.33.2 How do I install a common lsof when I have machines that need differently constructed lsof binaries?

A dilemma that faces some system administrators when they
install lsof in a shared file system -- e.g., NFS -- is
that they must have different lsof executables

for different
systems.

The answer is to build an lsof wrapper script that is
executed in place of lsof. The script can use system
commands to determine which lsof binary should be executed.

Consider this example. You have HP-UX machines with 32
and 64 bit kernels that share the /usr/local/sbin directory
where you want to install lsof. Consequently, on each
system you must use a different lsof executable, built for
the system's bit size. (That's because lsof reads kernel
structures, sized by the kernel's bit size.)

One answer is to install three things in /usr/local/sbin:
1) a 32 bit lsof as lsof32; 2) a 64 bit lsof as lsof64;
and 3) an lsof script. The script might look like this
one, based on work by Amir J. Katz:

```
   #!/bin/sh
   x=`/usr/bin/getconf KERNEL_BITS`  # returns 32 or 64
   if /usr/bin/test "X$x" = "X32"
   then
     lsof32 $*
   else
     if /usr/bin/test "X$x" = "X64"
     then
lsof64 $*
     else
echo "Can't determine which
lsof executable to use;"
echo "getconf KERNEL_BITS says: $x"
exit 1
     fi
   fi
```

Solaris users should consult "How do I install lsof for
Solaris 7, 8 or 9?" for information on a similar trick
using the Solaris isaexec command.

Users of other dialects might be able to use a command like
uname(1) that can identify a distinguishing feature of the
system to be incorporated in pre-installed lsof executable
names. For example, use `uname -r` and install binaries
with suffixes that match `uname -r` output.

3.34 Why do lsof 4.53 and above reject device cache files built
by earlier lsof revisions?

When lsof revisions 4.53 run and encounter a device cache file built by an earlier revision, it will reject the file and build a new one. The rejection will be advertised with these messages:

```
lsof: WARNING: no /dev device in <name>: 2 sections
...
lsof: WARNING: created device cache file: <name>
```

This happens because the header line of the device cache file
was changed at revision 4.53 to contain the number of the device on which the device directory resides. The old device cache file header line -- the "2 sections" line in the above warning message, node reads "2 sections, dev=600".

This is not a serious problem, since lsof automatically rebuilds the device cache file with the correct header line.

3.35 What do "like block special" and "like character special" mean in the NAME column?

When lsof comes across an open block or character file whose device, raw device and inode place it somewhere other than /dev (or /devices), lsof doesn't report the /dev (or /devices) name in the NAME column. Instead lsof reports the file system name and device or path name in the NAME column and parenthetically adds "like block special <path>" or "like character special <path>".

The value for <path> will point to a block or character device in /dev (or /devices) whose raw device number matches that of the open file being reported, but
whose device
number or node number (or both) don't match.

Such an open file is connected to a device node that has been created in a directory other than /dev (or /devices.) See mknod(8) for information on how such nodes are created. (Generally one needs root power to create device nodes with mknod.)

3.36 Why does an lsof make fail because of undefined symbols?

When lsof is compiled via the `make` step and the final load step fails because of missing symbols, the problem

may not be lsof. The problem may be that ld, called by
the compiler as part of the `make` step, can't find some
library that lsof needs.

First check the last compiler line of the make operation
-- e.g., the last line with cc or gcc in it before the
undefined symbol report -- for loader arguments, i.e.,
ones beginning with "-l". Except for "-llsof" the rest
name system libraries. ("-L./lib" precedes "-llsof" to
tell the loader its location.)

Check that all the named system libraries exist. Look
in
/lib and /usr/lib as a start, but that may not be the only
place system libraries live. Consult your dialect's
documentation, e.g., the compiler and loader man pages,
for other possible locations.

If some system library doesn't exist, that may mean it was
never installed or was removed. You'll have to re-install
the missing library.

You may find that all the system libraries lsof uses exist.
Your next step might be to use nm and grep to see if any
of them contain the undefined symbols.

```
$ nm library | grep symbol
```

If the undefined symbol exists in some library named by
the lsof make step, then you might have a problem with some
environment variable that controls the load step. The most
common is LD_LIBRARY_PATH. It may have a setting that
causes ld to ignore a directory containing a library lsof
names. If this is the case, try unsetting LD_LIBRARY_PATH
in the environment of the ld process -- e.g., do:

```
$ unset LD_LIBRARY_PATH
```
or
```
% unsetenv
```
LD_LIBRARY_PATH

Consult your ld man page for other environment variables
that might affect library searching -- e.g., LIBPATH, LPATH,
SHLIB_PATH, etc.

If the undefined function doesn't exist in any libraries
lsof names, check other libraries. See if the function
has a man page that names its library. If the latter is

true, please let me know, because that is an lsof problem
I need to fix.

If none of these solutions work for you, send me some
documentation via e-mail at <abe@purdue.edu>. Include `uname
-a` output, the output of the lsof `Configure ...` and `make`
steps, and the contents of the environment in force when the
`make` step was executed -- e.g., `env` or `printenv` output.
If you've located the libraries lsof names, send me that
information, too. Make sure "lsof" appears in the "Subject:"
line so my e-mail filter won't classify your letter as Spam.

3.37 Command Regular Expressions (REs)

3.37.1 What are basic and extended regular expressions?

Lsof's
``-c'' option allows the specification of regular
expressions (REs), enclosed in two slash ('/') characters and
followed by these modifiers:

    b the RE is a basic RE.
    i ignore case.
    x the RE is an extended RE (the default).

Note: the characters of the regular expression may need to
be quoted to prevent their expansion by the shell.

Example: this RE is an extended RE that matches exactly
four characters, whose third may be an upper ('O') or lower
case ('o') oh:

    -c /^..o.$/i

For simplicity's sake, an RE that is acceptable to egrep(1)
is usually called an extended RE.

REs suitable for the old line editor, ed(1), are often
called basic REs (and sometimes also called obsolete).

These are some ways basic REs usually differ from extended
REs. (There are other differences.)

* `|', `+', `?', '{', and '}' are ordinary characters.

* `^' is an ordinary character except at the beginning of
  the RE.

* `$' is an ordinary character except at the end
of the
  RE.

* `*' is an ordinary character if it appears at the
  beginning of the RE.

For more information on REs and the distinction between
basic and extended REs, consult your dialect's man pages
for ed(1), egrep(1), sed(1), and possibly regex(5) or
regex(7).

3.37.2 Why can't I put a slash in a command regular expression?

Since a UNIX command name is the last part of a path to
the command's executable, the lsof command regular expression
(RE) syntax uses slash ('/') to mark the beginning and end
of an RE. Slash may not appear in the RE and the `\'
back-slash escape is ineffective for "hiding" it.

More likely than not, if you try to put a slash in an lsof
command RE, you'll get this response:

```
$ lsof -s/.\// ...
lsof: invalid regexp modifier: /
```

Lsof is complaining the the first character it found after
the second slash isn't an lsof command RE modifier -- 'b',
'i', or 'x'.

3.37.3 Why does lsof say my command regular expression wasn't found?

When
you use both forms of lsof's -c option --
``-c <command>" and ``-c /RE/[m]" -- and ask that lsof
do a verbose search (``-V"), you may be surprised that
lsof will say that the regular expression wasn't found.

This can happen if the ``-c <command>" form matches first,
because then the ``-c/RE/[m]" test will never have been
applied. For example:

```
$ ./lsof -clsof -c/^..o.$/ -V -adcwd
COMMAND  PID USER   FD   TYPE DEVICE SIZE/OFF  NODE NAME
lsof    7850  abe  cwd   VDIR    6,0     2048 96442 / (/dev/sd0a)
lsof: no command found for regex: ^..o.$
```

The ``-clsof" option matched first, so the ``-c/^..o.$/

option wasn't tested.

3.38 Why doesn't lsof report on shared memory segments?

Lsof reports on shared memory segments only if they're associated with an open file. That's consistent with lsof's mission -- to LiSt Open Files. Shared memory segments with no file associations aren't open files.

That's not to say that a report on shared memory segments and
their associated processes wouldn't be useful. But it calls for a new tool, not more baggage for lsof.

3.39 Why does lsof report two instances of itself?

When you ask lsof to report all open files and it has permission to do so, you may see two lsof processes in the output. The processes are connected via pipes -- e.g., here's an HP-UX 11 example.

```
COMMAND     PID USER   FD   TYPE     DEVICE ...
...
lsof      29450  abe    7w  PIPE 0x48732408 ...
lsof      29450  abe    8r  PIPE 0x48970808 ...
...
lsof      29451  abe    6r  PIPE 0x48732408 ...
lsof      29451  abe    9w  PIPE 0x48970808 ...
```

The first process will usually be the lsof you initiated; the second, an lsof child process that is used to isolate its parent process from kernel functions that can block -- e.g., readlink() or stat().

Information to and from the kernel functions is exchanged via the two pipes. When the parent process detects that the child process has
become blocked, it attempts to kill
the child. Depending on the UNIX dialect that may succeed or fail, but the parent won't be blocked in any event.

See the "BLOCKS AND TIMEOUTS" and "AVOIDING KERNEL BLOCKS" sections of the lsof man page for more information on why the child process is used and how you can specify lsof options to avoid it. (Caution: that may be risky.)

3.40 Why does lsof report '\n' in device cache file error messages?

Lsof revisions prior to 4.58 may report '\n' in error
messages it delivers about problems in the device cache
file -- e.g.,

    lsof: WARNING: no ...: 4 sections\n

That's deliberately done to show the exact contents of the
device cache file line about which lsof is complaining,
including its terminating NL (New Line) '\n' character.
In the above example the line in the device cache file
causing the lsof complaint contains "4 sections" and ends
with a '\n'.

At revision 4.58 and above, device cache error messages
like the one in
the above example have been changed to
read:

    lsof: WARNING: no ...: line "4 sections"

The terminal '\n' is no longer reported, the line contents
are enclosed in double quote marks (""), and the word
"line" has been added as a prefix to denote that what
follows is a line from the device cache file.

3.41 Kernel Symbol and Address Problems

3.41.1 What does "lsof: WARNING: name cache hash size length error: 0" mean?

When run on some systems, lsof may issue this warning:

    lsof: WARNING: name cache hash size length error: 0

That is an example from a FreeBSD system where lsof reads
the kernel's _nchash variable and finds its value is zero.

Similar warnings include:

    WARNING: kernel name cache size:
    WARNING: can't read kernel's name cache:
    WARNING: no name cache address
    WARNING: name cache hash size length error:
    WARNING: unusable name cache size:

These warnings are issued when lsof is attempting to read
the kernel's name cache information.

They are usually the
result of a mis-match between the addresses for kernel
symbols lsof gets via nlist(2) and the addresses in use by
the kernel.

Lsof usually gets kernel symbol addresses from what it
believes to be the kernel boot file. In FreeBSD, for
example, that's the path returned by getbootfile(3), usually
/kernel. The boot file can have other names in other UNIX
dialects -- /unix, /vmunix, /bsd, /netbsd, /mach, /stand/vmunix,
etc.

Lsof will get incorrect (mismatched) addresses from the
boot file if it has been replaced by a newer one which
hasn't yet been booted -- e.g., if this is done in FreeBSD:

```
# mv /kernel /kernel.OLD
# mv /kernel.NEW /kernel
```

Until the FreeBSD system is rebooted, the booted kernel is
/kernel.OLD, but getbootfile() says it is /kernel. If
symbol addresses important to lsof in /kernel.OLD and
/kernel don't match, the lsof WARNING messages result.

3.41.2 Why does lsof produce "garbage" output?

Kernel name cache warnings
may not be the only sign that
lsof is using incorrect symbol addresses to read kernel
values. If there's no reasonable test lsof can make on
what it reads from the kernel, it may issue other warnings
or even report nonsensical results.

The warnings may appear on STDERR, such as:

```
lsof: can't read proc table info
```

Or the warnings may appear in the NAME column as messages
saying lsof can't read or interpret some kernel structure --
e.g.,

```
... NAME
... can't read file struct from 0x12345
```

One possible work-around is to point lsof's kernel symbol
address gathering at the proper boot file. That can be
done with lsof's -k option -- e.g.,

```
$ lsof -k /kernel.OLD
```

The best work-around is to make sure the standard boot file
is properly sited -- e.g., if you've moved a new /kernel
in place, boot it.

3.42 Why does lsof report open files when run as super user that it doesn't report when run with lesser privileges?

The most likely cause is that the HASSECURITY
option was
selected when the lsof executable was built.

If HASSECURITY is defined when lsof is built, and lsof is
run with the privileges of a non-ROOT user, it will only
list open files belonging to the user. The same lsof
executable, when run with root user privileges, will list
all open files.

However, if HASSECURITY and HASNOSOCKSECURITY are both
defined when lsof is built, lsof will list open files
belonging to the user and will also list anyone else's open
socket files, provided their listing is selected with the
"-i" option.

So first ask yourself if the process whose open files lsof
won't list belong to a user other than the one under which
you're running lsof, and are not open socket files. If
either is true, use lsof's help (-h or -?) option and look
for a line near the bottom of the help panel that says:

```
"... can list all files..."
```

If the leading "..." says "Only root" then HASSECURITY was
defined when lsof was built. If the trailing "..."
says
", but anyone can list socket files" then HASNOSOCKSECURITY
was also defined.

Should you want an lsof not built with HASSECURITY defined,
rerun the lsof Configure script. If you let Configure do
customization, make sure you answer 'n' when it asks if
you want to enable HASSECURITY and HASNOSOCKSECURITY. If
you don't need to do customization, you can rebuild lsof
with the "-n" option to Configure. Here's an example of
such a rebuild sequence:

```
$ Configure -clean
```

```
$ Configure -n <dialect-abbreviation>
$ make
```

More information on the HASSECURITY and HASNOSOCKSECURITY options may be found in the "Security" section of the 00README file of the lsof distribution.

3.43 Test Suite Problems

3.43.1 Errors all tests can report:

3.43.1.1 Why do tests complain "ERROR!!! can't execute ../lsof"?

All tests in the test suite expect an executable lsof file to exist in the tests parent directory, ../lsof.

If there's none there, the tests/Makefile has a rule to make it, but there are probably circumstances where that rule may fail.

The work-around is to re-Configure and re-make lsof, then run the test suite.

3.43.1.2 Why do tests complain "ERROR!!! can't find ..." a file?

Many tests create (or use from a supplied environment variable path) a test file and use lsof to find it. When lsof can't file the file, the tests report the error with messages of the form:

```
ERROR!!! can't find ... : <some file path>
```
or
```
ERROR!!! lsof couldn't find ...
```

These type of error messages mean that the lsof field output delivered to the test didn't contain a file that the test could identify as the one it intended lsof to find. It might also mean that the process information -- command name, PID or parent PID -- didn't match what the test expected.

This could imply a bug in the test or a bug in lsof. Try using lsof to find a known file that is open. For example, while in the tests sub-directory, do this:

```
$ sleep 30 <
```

Makefile
    $ ../lsof Makefile

If lsof doesn't report that Makefile is open, then the
fault may be with lsof. If lsof reports the file is open,
search further in the test code for the failure cause.

3.43.1.3 Why do some tests fail to compile?

If a test suite program fails to compile, it may be because
I've never had an opportunity to compile the test on the
particular UNIX version you are using.

See Appendix B in 00TEST for a list of the UNIX dialects
where the test suite has been validate.

3.43.1.4 Why do some tests always fail?

There are several tests in the optional group that have
conflicting or special requirements:

    LTbigf   needs a dialect and file system that support
  large files.

    LTlock   won't work if the tests/ sub-directory is
  on an NFS file system.

    LTnfs   won't work if the tests/ sub-directory is
  not on an NFS file system.

So for two tests in particular, LTlock and LTnfs, one will
generally fail.

Some failing tests
can be run successfully by supplying to
them a path to the appropriate type of file system with
the -p option.

3.43.1.5 Why does the test suite say it hasn't been validated on
  my dialect?

When you use the default rule of the test suite's Makefile,
it may issue this complaint:

    $ cd tests
    $ make
    !!!WARNING!!!

This dialect or its particular version may not have
been validated with the lsof test suite. Consequently
some tests may fail or may not even compile.

!!!WARNING!!!

You are then given the opportunity to answer 'y' to have
the test suite operation continue.

This message means that the tests/TestDB file in the tests
sub-directory doesn't show that the test suite has been
run with the combination of compiler flags found in
tests/config.cflags. The tests might nor run; they may
encounter compiler failures.

See 00TEST for more information on the UNIX dialects where
the test suite has been validated and on the workings of
TestDB
and its supporting scripts.

When the tests/Makefile "auto" rule is used, the message
is more terse and the condition is fatal.

This suite has not been validated on:

<dialect_description>

No opportunity to continue is offered.

The tests/Makefile "silent" rule will skip checking for
the validation footprint.

3.43.1.6 Why do the tests complain they can't stat() or open()
/dev/mem or /dev/kmem?

When the tests detect that lsof for the dialect reads its
information from kernel memory (i.e., the LT_KMEM definition
is present in tests/config.cflags), and when the lsof
executable path is ../lsof, the tests make sure they can
stat() and open() for read access the relevant kernel memory
devices, /dev/kmem and possibly /dev/mem.

If those stat() or open() operations fail, the tests issue
an error message and quit. The message explains why the
system rejected the operation in terms of system "errno"
symbols and messages. More often than not the explanation
will

be that the process lacks permission to access the
indicated device node.

One work-around is to give the lsof executable being tested
the necessary permission -- e.g., via chgrp, chmod, etc.
-- and set its path in the LT_LSOF_PATH environment variable.
(See 00TEST.)

Another work-around is to make sure the process that runs
the tests has the necessary permissions -- e.g., run it as
root, or enable the process login to access the resources.
For example, I can run the tests on my personal work-station
because /dev/kmem and /dev/mem are readable by the "kmem"
group and my login is in that group.

3.43.2 LTbigf test issues

3.43.2.1 Why does the LTbigf test say that the dialect doesn't
support large files?

Large file support is defined dialect by dialect in the
lsof source files and Configure script. If large file
support isn't defined there, it isn't defined in the LTbigf
test.

If you think that's wrong for a particular dialect, contact me
via e-mail at <abe@purdue.edu>.
Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

3.43.2.2 Why does LTbigf complain about operations on its config.LTbigf*
file?

The LTbigf must be able to write a large file test (size
> 32 bits) and seek within it and the process file ulimit
size must permit the operation. If the default location
for the test file, tests/, isn't on a file system enabled
for large file operations or if the process ulimit file
block size is too small, lsof will get file operation
errors, particularly when seeking

There may be a work-around. Specify the path to a file
LTbigf can write in a file system enabled for large file
operations a the -poption. Make sure that the ulimit file
block size permits writing a large file. For example,
presuming /scratch23 is large-file-enabled, and presuming

you have permission to raise the ulimit file block size,
this shell commands will allow the LTbigf test to run on
AIX:

```
   $
./LTbigf -p /scratch23/abe/bigfile
```

(Note: syntax for the ulimit command varies by dialect and
by shell. Discovering the proper variant is left to the
reader.)

More information on this subject can be found in the LTbigf
description in the 00TEST file. If course, the LTbigf.c
source file in tests/ is the ultimate source of information,

3.43.2.3 Why does LTbigf warn that lsof doesn't return file offsets?

On some dialects (e.g., Linux) lsof can't report file
offsets, because the data access method underlying lsof
doesn't provide them. If LTbigf knows that lsof can't
report file offsets for the dialect, it issues this warning:

```
   LTbigf ... WARNING!!!  lsof can't return file offsets
  for this dialect, so offset tests have
  been disabled.
```

LTbigf then performs the size test and skips the offset
tests.

For more information see 00TEST and the "Why doesn't
/proc-based lsof report file offsets (positions)?" Q&A of
this file.

3.43.3 Why does the LTbasic test complain
"ERROR!!! lsof this ..."
and "ERROR!!! lsof that ..."?

The LTbasic test program uses lsof to examine a running
lsof process. It looks for the lsof current working
directory, executable (if possible), and kernel memory file
(if applicable).

Failures to find those things result in the LTbasic error
messages. More information on how LTbasic produces the error
messages may be found in the LTbasic.c source file.

On HP-UX 11.11 and higher, for example, if the test's current
working directory is on a loopback (LOFS) file system, LTbasic

won't be able to find the current working directory of the lsof process because of a bug in the HP-UX kernel.

The solution for that HP-UX problem is to install an HP-UX patch. See the answer to the "Why doesn't PSTAT-based lsof report a CWD that is on a loopback (LOFS) file system?" question for more information on the patch.

3.43.4 NFS test issues

3.43.4.1 Why does the LTnfs test complain "couldn't find NFS file ..."?

The LTnfs test must work with an NFS test file. After it opens the file it asks lsof to find it on an NFS file system. If the file isn't on an NFS file system, lsof won't find it, and the NFS test script complains and fails.

The work-around is to use -p option to supply a path to a regular NFS file (not a directory) that is on an NFS file system that LTnfs can read. Presuming /share/bin/file is such a file and can be opened for reading by the LTnfs test, this sample shell command could be used to run the LTnfs test successfully:

```
$ ./LTnfs -p /share/bin/file
```

(If the NFS file system is enabled for large files, the NFS test will produce the error message described in the following Q&A.)

3.43.5 LTnlink test issues

3.43.5.1 Why does the LTnlink test complain that its test file is on an NFS file system?

The LTnlink test may complain:

```
LTnlink ... WARNING!!! test file <path> is NFS mounted.
```

and then issue an explanation and a hint about using the -p option.

The LTnlist test does this because of the way NFS file links are managed when an NFS file is unlinked and the unlinking process still has the file open. Unlike with files on a local file system, when an NFS file that is

still open is unlinked, its link count is not reduced.

The file name is changed to a name of the form .nfsxxxx
and the link count is left unchanged until the process
holding the file open closes it. That's done by NFS so it
can keep proper track of the file on NFS clients and servers.

Since the link count isn't reduced when the LTnlink test
program closes the NFS test file it still has open, lsof
won't find it for LTnlink with a link count of zero.
Consequently, LTnlink disables that test section and issues
its warning.

The warning suggests that the unlink test section can be
run by giving LTnlink a path to a test file with the -p
option. That path must name a file LTnlink can write and
unlink. Presuming /scratch23/abe/nlinkfile is on a local
file system
and the LTnlink test can write to it and unlink
it, this sample shell command can be used to run the complete
LTnlink test successfully:

```
$ LTnlink -p /scratch23/abe/nlinkfile
```

3.43.5.2 Why does LTnlink delay and report "waiting for link count update: ..."?

On some UNIX dialects and file system combinations the
updating of link count after a file has been unlinked can
be delayed. Consequently, lsof won't be able to report
the updated link count to LTnlink for a while.

When lsof doesn't report the proper link count to LTnlink,
it sleeps and repeats the lsof call, using the "waiting
for link count update: ..." message as a signal that it is
waiting for the expected lsof response. The wait cycle
duration is limited to approximately one minute.

3.43.5.3 Why does LTnlink fail because of an unlink error?

LTnlink may fail with an error similar to:

```
LTnlink ... ERROR!! unlink(<name>) failed: (Permission denied).
```

That message will be followed by a short explanation.

The

error means that the kernel support for the file system on which the file <name> resides does not allow a process to unlink a file while it has the file open. (When LTnlink is run without the "-p path" option, it creates a <name> that begins with "./config.LTnlink" and ends with the LTnlink process ID number.)

An unlink failure of this type runs counter to original UNIX file system behavior, but it has been observed on some file system types, especially on the ZFS file system.

The work-around is to run LTnlink on a file system that allows a process to unlink a file it has open. Usually /tmp has that support. So, try running LTnlink this way:

```
$ ./LTnlink -p /tmp/<name>
```

where <name> is a unique name in /tmp of your choosing. To be safe, create a subdirectory in /tmp, named by your login:

```
$ rm -f /tmp/<login>
$ mkdir /tmp/<login>
$ ./LTnlink -p /tmp/<login>/<name>
```

3.43.6 LTdnlc test issues

3.43.6.1 Why won't the LTdnlc test run?

Lsof
is unable to access the DNLC cache on AIX, because the kernel symbols for the DNLC aren't exported. Contact IBM to learn why that decision was made.

The LTdnlc test won't work on Apple Darwin because lsof can't obtain reliable DNLC information.

The LTdnlc test may fail on other dialects. Failure causes include: a busy system with a DNLC that is changing rapidly; path name components too large for the DNLC; a file system -- e.g., NFS, /tmp, loopback -- which doesn't fully participate in the DNLC; or DNLC limitations (Many DNLC implementations will only store path name components if they are 31 characters or less.)

If you suspect the file system doesn't fully participate in kernel DNLC processing, as a work-around rebuild and test lsof on one that does.

3.43.6.2 What does the LTdnlc test mean by "... <path> found: 100.00%"?

Even when it succeeds the LTdnlc test will report:

```
LTdnlc ... /export/home/abe/src/lsof4/tests found: 100.00%
```

This message means that
the LTdnlc test asked lsof to find
the file at the indicated path five times and lsof found
the full path name in the indicated percentage of calls.
The LTdnlc test considers it a failure if the percentage
falls below 50.0%

3.43.6.3 Why does the DNLC test fail?

The DNLC test may fail when some component of the lsof
tests/ sub-directory can't be cached by the kernel DNLC.
Some kernels have a limit on the length of individual
components (typically) 32.

3.43.7 Why hasn't the test suite been qualified for 64 bit HP-UX
11 when lsof is compiled with gcc?

When I attempted to qualify lsof for HP-UX 11, compiled
with gcc 3.0, the LTsock test failed. I traced the failure
to a gcc compilation error. Because LTsock is an important
test, I didn't feel that the test suite was qualified if
it failed.

LTsock compiles and runs correctly on 64 bit HP-UX 11 when
compiled with HP's ANSI-C.

3.43.8 LTszoff test issues

3.43.8.1 Why does LTszoff warn that lsof doesn't return file offsets?

On
some dialects (e.g., Linux) lsof can't report file
offsets, because the data access method underlying lsof
doesn't provide them. If LTszoff knows that lsof can't
report file offsets for the dialect, it issues this warning:

```
LTszoff ... WARNING!!! lsof can't return file offsets
for this dialect, so offset tests have
been disabled.
```

LTszoff then performs the size test and skips the offset
tests.

For more information see 00TEST and the "Why doesn't
/proc-based lsof report file offsets (positions)?" Q&A of
this file.

3.43.9 LTlock test issues

3.44 File descriptor list (the ``-d'' option) problems

3.44.1 Why does lsof reject a ``-d'' FD list?

Lsof rejects ``-d'' FD lists that contain both exclusions
and inclusions with messages like:

```
lsof: exclude in an include list: ^1
lsof: include in an exclude list: 2
```

That's because ``-d'' FD lists are processed as ORed lists,
so it makes no sense for them to contain both exclusions
and inclusions.

I.e.,,
if a ``-d'' FD list were to contain ``^cwd,1'', the
``^cwd'' member is useless, because the ``1'' member
dominates by saying "include only FD 1". That effectively
excludes ``cwd'' FD.

Note that lists may have multiple members of the same type,
exclude or include. They are processed as an ORed set.
If an FD isn't excluded by any member of an exclude list,
it is selected. If an FD is included by any member of an
include list, it is selected.

3.44.2 Why are file descriptors other than those in my FD list
reported?

The FD list that follows ``-d'' excludes or includes file
descriptors, but unless the ``-a'' (AND) option is specified,
the FD list selections are ORed to the other selections.

For example, the following lsof command will cause all file
descriptors to be listed for the lsof command, and all but
the cwd descriptor for all other commands, probably not
what was intended.

```
$ lsof -clsof -d^cwd
```

Hint: use ``-a'' -- e.g.,

```
    $ lsof -clsof
-a -d^cwd
```

3.45 How can I supply device numbers for inaccessible NFS file systems?

When lsof can't get device numbers for inaccessible NFS file systems via stat(2) or lstat(2), it attempts to get them from the mount table's dev=xxx options. Successes are reported with a warning message that indicates the source of the device number and that output might be incomplete as a consequence of the warnings.

Some system mount tables -- e.g., Linux /proc/mounts -- don't have a dev=xxx option. In that case, and provided lsof for the dialect supports them, you can use the +m option to create a mount table supplement file and the "+m m" option to use it.

First check the lsof -h (help) output to see if the +m and "+m m" options are supported. If they are, use +m to create a mount table supplement file when all mounted file systems are accessible. Use "+m m" later to make the supplement available when some mounted file systems might not be available.

Here's an example that creates a mount supplement file in $HOME/mnt-sup and later makes it available to lsof.

```
    $ rm -f $HOME/mnt-sup
    $ lsof +m > $HOME/mnt-sup
    ...
    $ lsof +m $HOME/mnt-sup <other lsof options>
```

If lsof has to get the device number from the supplement, it will issue an informative warning message. The warning can be suppressed with lsof's -w option.

Caution! Since the mount table supplement file is static, it is its supplier's responsibility to update it as file system mounts change.

For more information, consult the lsof man page. The "ALTERNATE DEVICE NUMBERS" section has useful information on how lsof acquires device numbers when stat(2) or lstat(2) fail.

3.46 Why won't lsof find open files on over-mounted file systems?

When a file system, /xyz for example, is mounted on the same mount point as another file system, /abc for example, running lsof with an argument of the path of the first file system's mount point -- the over-mounted one, /abc -- probably will not
reveal any files open on /abc.

That's because lsof looks for open files on a file system by looking for files with the file system's device number. The two file systems usually have different device numbers and lsof determines the device number search key from the supplied name of the second file system.

A general work-around exists only for Linux. On that UNIX dialect, when you know the over-mounted file system's mount point path, you can ask lsof to report on all open files and grep that output for the path of the over-mounted file system mount point.

3.47 What can be done when lsof reports no more space?

Many lsof methods cache information in memory, using the dialects malloc() library function. When malloc() can't allocate the requested amount of memory, lsof exits with warning messages similar to this AIX message:

```
lsof: no more dev-ch space at pid 2257750: 0x82a8e600
```

Lsof then exits immediately and produces no more output.

A possible work-around
is to increase the memory foot print
of the shell that runs lsof. That is often done with the ulimit(1) shell command.

3.48 What if the lsof build encounters ar and ld problems?

The lsof main and library Makefiles use the library archiver, ar, and the system loader, ld, applications. Improperly located, installed or configured versions of them may cause the lsof build to encounter errors with them.

The application producing the error should identify itself in its error messages.

The first thing to check the path of the application that is being used. Try `which ar` or `which ld` to see if perhaps the

PATH used during the build might be causing the wrong archiver
or loader to be used.

If the problem is with the use of the wrong archiver, and it's
not possible to correct the PATH to it, try using the LSOF_AR
environment variable to specify the path to and arguments for
the correct archiver. See 00XCONFIG for more information and
note that LSOF_AR must
specify the path to the archive
application and the arguments for it, less the terminating
library and module name arguments.

If the problem is with the loader, there is no lsof work-
around. That's because lsof calls the loader via the C
compiler, so the problem must be fixed at the compiler (system)
level.

3.49 Why does lsof -i report an open socket file for a process, but
lsof -p on that process' ID report nothing?

The lsof in use was probably built with the HASSECURITY and
HASNOSOCKSECURITY options and the process in question does not
belong to the user of lsof.

The HASSECURITY option limits lsof output to processes owned
by the user invoking lsof and the HASNOSOCKSECURITY option
weakens that slightly to allow output of open socket file
information for all processes.

For example, if process PID 12345 is owned by some user other
than the one invoking lsof, and lsof has been compiled with the
HASSECURITY and HASNOSOCKSECURITY options, the following lsof
command
will display the open socket files of process 12345:

$ lsof -p 12345 -a -i

This security restriction is described in the lsof(8) manual
page.

4.0 AIX Problems

4.1 What is the Stale Segment ID bug and why is -X needed?

Kevin Ruderman reports that he has been informed by IBM
that processes using the AIX 3.2.x, 4.1[.12345]], 4.2[.1],
and 4.3.x kernel's readx() function can cause other AIX

processes to hang because of what appears to be file system corruption.

This failure, known as the Stale Segment ID bug, is caused by an error in the AIX kernel's journaled segment memory handler that causes the kernel's dir_search() function erroneously to believe directory entries contain zeroes. The process using the readx() call need not be doing anything wrong. Usually the system must be under such heavy load that the segment ID being used in the readx() call has been freed and then reallocated to another process since it was obtained from kernel memory.

Lsof uses the readx() function to access library entry structures, based on the segment ID it finds in the proc structure of a process. Since IBM probably will never fix the kernel bug, I've added an AIX-specific option to lsof that controls its use of the readx() function.

By default lsof readx() use is disabled; specifying the ``-X'' option enables readx() use.

If you want to change the default readx() behavior of AIX lsof, change the HASXOPT, HASXOPT_ROOT, and HASXOPT_VALUE definitions in dialects/aix/machine.h. You can also use these definitions to enable or disable readx() -- consult the comments in machine.h. You may want to disable readx() use permanently if you plan to make lsof publicly executable.

When HASXOPT_ROOT is defined, lsof will restrict use of the -X option to processes whose real UID is root; if HASXOPT_ROOT isn't defined, any user may specify the -X option. The Customize script offers the option to change HASXOPT_ROOT when HASXOPT is defined and HASXOPT_ROOT is named in any dialect's machine.h header file.

I have never seen lsof cause a problem with its use of readx(), but I believe there is some chance it could, given the right circumstances.

4.1.1 Stale Segment ID APAR

Here are the details of the Stale Segment ID bug and IBM's response, provided by Kevin Ruderman.

AIX V3

APAR=ix49183
user process hangs forever in kernel due to file system corruption
STAT=closed prs TID=tx2527 ISEV=2 SEV=2
(A "closed prs" is one closed with a Permanent ReStriction.)
RCOMP=575603001 aix v3 for rs/6 RREL=r320

AIX V4 (internal defect, no apar #)
prefix p
name 175671
abstract KERMP: loop for ever in dir_search()

Problem description:

1. Some user application -- e.g., lsof -- gets the segment ID (SID) for the process private segment of a target process from the process table.

2. The target process exits, deleting the process private segment.

3. The SID is
reallocated for use as a persistent segment.

4. The user application runs again and tries to read the user area structure from /dev/mem, using the SID it read from the process table.

5. The loads done by the driver for /dev/mem cause faults in the directory; new blocks are allocated; the size changed; and zero pages created.

6. The next application that looks for a file in the affected directory hangs in the kernel's dir_search() function because of the zero pages. This occurs because the kernel's dir_search() function loops through the variable length entries one at a time, moving from one to the next by adding the length of the current entry to its address to get the address of the next entry. This process should end when the current pointer passes the end of the known directory length.

However, while the directory length has increased, the entry length data has not, so when dir_search() reaches the zero pages, it
loops forever, adding a length of
zero to the current pointer, never passing the end of

the directory length. The application process is hung;
it can't be killed or stopped.

IBM closed the problem with a PRS code (Permanent ReStriction)
under AIX Version 3 and had targeted a fix for AIX 4.2. They
have recently (I became aware of it September 10, 1996)
cancelled the defect report altogether and have indicated they
are not going to fix the defect.

4.2 Gcc Work-around for AIX 4.1x

When gcc is used to compile lsof for AIX 4.1x, it doesn't
align one element of the user structure correctly. Xlc
sees the U_irss element as a type "long long" and aligns
it on an 8 byte boundary. That's because the default mode
of xlc is -qlonglong; when -qlonglong is enabled, the
_LONG_LONG symbol is also defined.

Gcc sees U_irss as a two element array of type long, because
_LONG_LONG isn't defined. Hence gcc aligns the U_irss
element array on a 4 byte boundary, rather than an
8 byte
one, making the gcc incantation of the user structure 4
bytes shorter than xlc's.

When the length of gcc's user structure is supplied as
argument 4 to the undocumented getuser() function of the
AIX kernel, getuser() rejects it as an incorrect size and
returns EINVAL.

Lsof has a work-around for this problem. It involves a
special test in the Configure script when the "aixgcc"
Configure abbreviation is used -- e.g.,

```
$ Configure -n aixgcc
```

The test is to compile a small program with gcc and check
the alignment of U_irss. If it's not aligned on an 8 byte
boundary, the Configure script makes a special copy of
<sys/user.h> in ./dialects/aix/aix<AIX_version> whose
U_irss will align properly, and generates compile time
options to use it.

While I have tested this work-around only with 4.1.4, it
should work with earlier versions of AIX 4.1. It does not
work for AIX 4.2; a different work-around is employed there.
(See the next section.)

If you want to use this
technique to compile other AIX
4.1x programs with gcc for using getuser(), check the
Configure script.

Stuart D. Gathman identified this gcc AIX alignment problem.

4.3 Gcc and AIX 4.2[.1]

Alignment problems with gcc and AIX 4.2[.1] inside the user
structure are more severe, because there are some new 64
bit types in AIX that gcc doesn't yet (as of 2.7.x) support.
The <sys/user.h> U_irss element problem, discussed in 4.3
above, doesn't exist in 4.2[.1].

The AIX lsof machine.h header file has a work-around,
provided by Henry Grebler, that bypasses gcc alignment
problems. Later versions of gcc (e.g., 2.8.x) will probably
bypass the problems as well.

4.4 Why won't lsof's Configure allow the use of gcc for AIX
below 4.1?

Gcc can't reliably be used to compile lsof for AIX versions
below AIX 4.1 because of possible kernel structure element
alignment differences between it and xlc.

4.5 What is an AIX SMT file type?

When you run AIX X clients with the DISPLAY environment
variable
set to ``:0.0'' they communicate with the AIX X
server via files whose kernel file structure has an undefined
type (f_type == 0xf) -- at least there's no definition for
it in <sys/file.h>.

These are Shared Memory Transport (SMT) sockets, an artifact
of AIXWindows, designed for more efficient data transfers
between the X server and its clients.

Henry Grebler and David J. Wilson alerted me to the existence
of these files. Mike Feldman and others helped me identify
them as SMT sockets.

The curious reader can find more about SMT sockets in
/usr/lpp/X11/README.SMT.

4.6 Why does AIX lsof start so slowly?

When AIX lsof starts it compares the running kernel's
identity to the one for which it was built, using
/usr/bin/oslevel. That comparison can sometimes take a
long time to complete, depending on the system's maintenance
level and how recently it was examined with oslevel.

AIX revisions 4.67 and above for AIX 5 and above don't use
oslevel to determine
the kernel identity. They use uname(2)
instead, and it is much faster.

You can skip the oslevel test by suppressing warning messages
with lsof's -w option. Doing that carries with it the risk
of missing other warning messages, however.

You can also disable the kernel identity check by disabling
the definition of the HASKERNIDCK symbol by editing AIX
machine.h header file or by using the Customize script to
disable it.

See the "Why does lsof warn "compiled for x ... y; this is
z.?" section for more information.

4.7 Why does exec complain it can't find libc.a[shr.o]?

When you try to execute lsof you may get this complaint:

```
exec(): 0509-036 Cannot load program ./lsof because of
    the following errors:
 0509-022 Cannot load library libc.a[shr.o].
 0509-026 System error: A file or directory in
the path name does not exist.
```

This is probably the result of making lsof when the LIBPATH
environment variable contained a directory path that doesn't
contain
libc.a. You can see what LIBPATH contained when
lsof was made by using the dump application on lsof. For
example, if LIBPATH contained /foo/bar when lsof was made,
you will see this (partial) dump output:

```
$ dump -H lsof
...
***Import File Strings***
INDEX  PATH                    BASE        ...
0      /foo/bar
```

To correct the problem, revisit the lsof source directory
and remake lsof this way:

    $ unset LIBPATH; make (sh or ksh)
or
    % unsetenv LIBPATH; make (csh or tcsh)

4.8 What does lsof mean when it says, "no PCB, CANTSENDMORE,
CANTRCVMORE" in a socket file's NAME column?

When an AIX application calls shutdown(2) on an open socket
file, but hasn't called close(2) on the file, the file will
remain visible to lsof as an open socket file without any
extended protocol information.

Lsof reports that state in the NAME column by saying that
there is "no PCB" (Protocol Control Block) for the protocol
(e.g., TCP in the NODE
column). If the open socket file
has the state variables SO_CANTSENDMORE and SO_CANTRCVMORE
set -- i.e., from the shutdown(2) call -- lsof reports them
with the CANTSENDMORE and CANTRCVMORE notes in the NAME
column.

4.9 When the -X option is used on AIX 4.3.3, why does lsof disable
it, saying "WARNING: user struct mismatch; -X option disabled?"

The -X option causes lsof to read the loader information
of the user structure from virtual memory via the readx()
system call. It does that with the user structure definition
from <sys/user.h> that was compiled into the lsof executable.

On AIX 4.3.3 there are two different user structure
definitions in two separate <sys/user.h> header files,
distributed at different times by IBM. If lsof was compiled
with one and the kernel on which lsof is being run was
compiled with the other, lsof normally won't get correct
loader information when it calls readx().

In an attempt to compensate for that difference, lsof makes
an independent
check of the loader information by getting
the user structure's open file count via readx() and
comparing it to the open file count obtained independently
via getprocs(). When the two counts don't match, lsof
tries to read the count (and re-read the loader information)
with two offsets, based on observed differences between
the two user structures.

When one of the three attempts produces a correct open file count, lsof uses its corresponding offset on subsequent readings of the loader information.

When none of the three attempts produces a correct open file count, lsof issues the WARNING message and disables -X processing.

To eliminate this problem, obtain an lsof binary that matches the kernel of the AIX 4.3.3 system where you want to run lsof. Compiling lsof on the target system is the preferred way to get a matching binary.

4.10 Why doesn't the -X option work on my AIX 5L or 5.[123] system?

If your AIX 5L or 5.[123] system uses the ia64 architecture, lsof
needs setuid-root permission to be able to do the processing that -X requires.

Check the output of `uname -a` to determine the architecture type.

The work-around is to give lsof setuid-root permission.

4.11 Why doesn't /usr/bin/oslevel report the correct AIX version?

The oslevel man page says, "The oslevel command reports the level of the operating system using a subset of all filesets installed on your system."

You can see which fileset is below the expected level with oslevel's -l option. For example, if you believe your system is at AIX level 4.3.3, but oslevel reports 4.3.2, use this oslevel command to find the filesets below 4.3.3:

```
$ /usr/bin/oslevel -l 4.3.3.0
```

If you don't know what level argument to supply to oslevel's -l option, use oslevel's -q option first.

4.11.1 Why doesn't /usr/bin/oslevel report the correct AIX version on AIX 5.1?

The subset list for oslevel on AIX 5.1 seems to include at least two filesets, xlsmp.msg.en_US.rte and xlsmp.rte,

that
do not install from AIX 5.1 media with a 5.1.0.0 level.
Hence, oslevel reports 5.0.0.0 instead of the expected
5.1.0.0.

If either xlsmp.msg.en_US.rte or xlsmp.rte is installed,
lsof's Configure script and run-time tests will identify
the AIX version incorrectly. The run-time test will
issue a complaint message of this form:

```
lsof: WARNING: compiled for AIX version xxx; this is yyy.
```

You can correct the Configure test by pre-defining the
oslevel value, setting the correct value in the LSOF_VSTR
environment variable before running the Configure script
-- e.g., to pre-define AIX 5.1 when using ksh, do this:

```
$ LSOF_VSTR=5.1.0.0 Configure -n aix
```

You can't affect oslevel output without uninstalling
xlsmp.msg.en_US.rte and xlsmp.rte. If you can't do that,
you'll have to put up with the run-time complaint.

4.12 Why does lsof for AIX 5.1 or above Power architecture
complain about kernel bit size?

When you run an lsof binary on an AIX 5.1 or above Power
system,
it might complain:

```
lsof: FATAL: compiled for a 32 bit kernel.
The bit size of this kernel is 64.
```

or

```
exec: 0509-036 Cannot load program ./lsof because of
 the following errors:
     0509-032 Cannot run a 64-bit program on a 32-bit
 machine.
```

Starting at lsof revision 4.61, lsof binaries for Power
architecture systems running AIX 5.1 or above are closely
tied to the kernel bit size. Lsof must do that so it can
read and understand kernel structures.

Lsof's Configure script tunes the lsof configuration so
that the binary built in the make(1) step is adjusted to
the kernel bit size.

An lsof binary knows the bit size for which it was constructed,

tests the bit size of the kernel under which it is running,
and objects if the two sizes don't match. To see the bit
size for which lsof was constructed, run it with its -v
option and look for these lines in the output:

configuration info: 32 bit kernel
or
configuration info:
64 bit kernel

(Note: these lines will appear only in -v output for AIX
5.1 and above lsof binaries, built for Power architecture.)

You can see the kernel bit size test method in the aix
stanza of the lsof Configure script and in the get_kernel_access()
function of the lsof .../dialects/aix/dproc.c source file.

There is more information on pre-defining the kernel bit
size when building lsof in Configure, 00PORTING, and
00XCONFIG.

The only work-around is to use an lsof binary built to
match the running kernel bit size.

4.13 What can't gcc be used to compile lsof on the ia64 architecture
for AIX 5 and above?

Gcc can't be used to compile lsof on the ia64 architecture
for AIX 5 and above because I haven't had access to a system
that has a working gcc compiler. The gcc compiler on my
one and only ia64 AIX 5.1 test system, provided by IBM,
didn't work at all.

4.14 Why does lsof get a segmentation fault when compiled with gcc
for a 64 bit Power architecture AIX 5.1 kernel?

When
lsof is configured with the lsof "aixgcc" Configure
abbreviation, the resulting lsof executable may cause a
segmentation violation when it is run. I've observed this
with gcc version 2.9-aix43-010414-7.

As far as I have been able to tell, the segmentation fault
is the result of a gcc compilation, loading, or library
error. Watching lsof run with gcc's companion debugger,
gdb, shows no error in the lsof source code that might
explain the fault.

The only work-around I know is to use the IBM C compiler
in place of gcc -- i.e., use the "aix" lsof Configure
abbreviation.

4.15 Why does lsof ignore AFS on my AIX system?

The lsof Configure script quits on AIX when AFS is present,
the AIX version is greater than 4.3.3.0 or the AFS version
is greater than 3.5. That's because I have no test systems
available for those AIX and AFS version combinations.

When the lsof Configure script detects an AIX and AFS
version combination that is unsupported, it will report:

```
 !!!FATAL: Lsof does not support AFS on this combination of
    AIX and AFS versions.  To disable AFS, set the
    value of the AIX_HAS_AFS environment variable to
    "no".
```

The only work-around is to set the AIX_HAS_AFS environment
variable as explained in the error message:

```
   $ AIX_HAS_NSF=no; export AIX_HAS_NFS
   $ ./Configure -n aix
```

4.16 Why does lsof report "system paging space is low" and exit?

When AIX paging space runs low, the AIX kernel sends a SIGDANGER
signal to processes, warning them that they should reduce their
memory usage.

When lsof receives that signal, it issues the following fatal
error message and exits:

```
   lsof: FATAL: system paging space is low.
```

A possible work-around is to limit the amount of information
lsof must cache in its process memory with the "-c", "-g", "-l"
and "-p" options.

Also see the answer to the "What can be done when lsof reports
no more space?" question.

4.17 Why does lsof have a compilation problem on
AIX 5.3 above
maintenance level 1?

On some AIX 5.3 systems with maintenance levels 2 and higher installed, lsof 4.77 and below may not compile properly. The compiler complains the snapshotObject structure definition, needed by <j2/j2_inode.h>, is missing.

That problem is fixed in the 4.78 revision.

5.0 Apple Darwin Problems

5.1 What do /dev/kmem-based and libproc-based mean?

Lsof for Apple Darwin currently uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

At an upcoming release lsof will use a library called libproc to obtain information about open files. That version of lsof wil be called libproc-based lsof.

The /dev/kmem-based lsof sources may be found in the kmem subdirectory of the dialects/darwin branch of the lsof source tree. When the supporting version of Apple Darwin is released, the libproc-based lsof sources will be found in .../dialects/darwin/libproc.

5.2 /dev/kmem-based Apple Darwin Questions

5.2.1 Why does Configure ask for a path to the Darwin XNU kernel header files?

When lsof was ported to Apple Darwin by Allan Nathanson at revision 4.53, some kernel header files needed by lsof weren't being exported by the developers. (That's still true at lsof revision 4.76.)

At first a shell script that Allan provided would get the missing header files by checking them out from the CVS root. Although the script was updated from time to time, eventually the re-organization of Darwin sources has made it impossible to update the script to do an automatic download of the missing header files.

At lsof revision 4.69 and above it is necessary for the Darwin lsof builder to download the Darwin XNU kernel headers before attempting to build lsof. The download my be done via a web

browser, starting at this URL:

    http://www.opensource.apple.com/darwinsource/index.html

Once there, select the link to the Mac OS
X version that
matches the one on the system where lsof is to be built.

Follow that link's "[Source]" link. Once there, select the
tar.gz link of the xnu* entry near the bottom of the page.
That entry should have a name that matches the xnu* name shown
by `uname -a` -- e.g., if uname reports:

    $ uname -a
    ... root:xnu/xnu-517.7.21 ...

Then the appropriate xnu* entry is xnu-517.7.21. Clicking
its link should lead to an "Apple Open Source" page requesting
an Apple ID and password.

Enter them if they're available. If an Apple ID and password
are not available, get them by following the instructions on
the page -- i.e., follow the signin.apple.com link.

Once a valid Apple ID and its password have been entered,
the download will begin. Select the saving of the downloaded
xnu*.tar.gz file in an appropriate place on the Mac OS X
system.

Once the download completes, install it. Use gunzip to
decompress the download and tar to extract the archive -- e.g.,

    $ gunzip -c xnu-517.7.21.tar.gz | tar xf -

Remember the absolute path to the extracted archive. That is
its installed place. E.g., if the xnu-517.7.21.tar archive was
extracted to the lsof builder's home directory, its full
installation path will be something like:

    ~/xnu-517.7.21

Now run the lsof Configure script. When it asks for the path
to the installed Darwin XNU kernel header files, supply the
path to the gunzip'd and extracted xnu* archive -- e.g.,
~/xnu-517.7.21.

The path to the Darwin XNU kernel headers may also be

supplied to the Configure script in the DARWIN_XNUDIR environment variable, eliminating the need to enter it interactively -- e.g.,

```
$ DARWIN_XNUDIR=~/xnu-344.49 ./Configure -n darwin
```

5.2.1.1 Why does Configure complain that Darwin XNU kernel header files are missing?

These are some reasons why the lsof Configure script might claim that Darwin XNU header files are missing:

* The wrong path to them was specified.

*
The files and directories in the path are not readable and searchable -- i.e., check the modes and ownerships.

* The downloaded archive doesn't match the Mac OS X version of the system.

If in doubt, revisit the Darwin XNU kernel header file download instructions in the answer to the question "Why does Configure ask for a path to the Darwin XNU kernel header files?"

If Configure still can't find Darwin XNU kernel header files, contact me via e-mail at <abe@purdue.edu> for help. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

5.2.2 Why doesn't Apple Darwin lsof report text file information?

At the first port of lsof to Apple Darwin, revision 4.53, insufficient information was available -- logic and header files -- to permit the installation of VM space scanning for text files. As of lsof 4.70 it is sill not available.

Text file support will be added to Apple Darwin lsof after the necessary information
becomes available.

5.2.3 Why doesn't Apple Darwin lsof support IPv6?

At the first port of lsof to Apple Darwin, revision 4.53, Apple Darwin lacked IPv6 support. IPv6 became available in Apple Darwin version 1.5 and support for it was added to lsof then.

5.2.4 Why does lsof complain about a mismatch between the release for which lsof was compiled and the booted Mac OS X release?

When lsof is started on the "Gold Master" Darwin release (aka Mac OS X), it complains:

    lsof: compiled for 1.0 release; this is 1.3.2.

This happens because the lsof binary released with Mac OS X was built on a system whose release number (1.0) doesn't match that of the released system -- usually 1.3.x Lsof makes this check because UNIX dialect OS changes are often accompanied by header file changes that affect lsof.

In this specific case, this error can be ignored. If you don't want to do that, get the lsof distribution and build lsof so its built-on and running-on Mac OS X release numbers match.

5.2.5 Why does lsof for Apple Darwin 8 and higher report "stat(...): ..." in the NAME column?

Lsof for Apple Darwin 8 may report messages like these in the NAME column:

    stat(/private/var/run/asl_prune): No such file or directory
 or
    stat(/private/var/db/netinfo/local.nidb/Config): Permission denied

Those messages indicate that lsof was unable to collect open file information for the paths enclosed in "stat(...)" with the stat(2) function, because the function encountered the reported error.

A work-around for the "Permission denied" error is to run lsof with elevated privileges -- e.g., when logged on as the super user.

If the stat(2) error message is "No such file or directory", the file probably has been unlinked (removed) and there is no lsof work-around.

5.2.6 What are the limitations of Apple Darwin lsof link count reporting?

Lsof for Apple Darwin cannot report link count information

reliably.

For Apple Darwin below 8 link
count information is not always
available in the kernel node structures available to lsof.
When link count information is available, however, it includes
link counts of zero. Thus, using lsof's +L1 option may result
in the finding of some files whose link counts are zero.

Lsof can report only some link count information for Apple
Darwin 8 and above. Link count information is only available
for files where lsof can assemble the full file path and has
permission to apply stat(2) to it. (See the answer to the "Why
does lsof for Apple Darwin 8 and higher report "stat(...): ..."
in the NAME column?" question for more information on stat(2)
failures.)

Apple Darwin 8 and above files that have been unlinked and thus
have a link count of zero cannot be found by stat(2) -- i.e.,
stat(2) returns a "No such file or directory" error. As a
result lsof never displays link counts of zero and the use of
lsof's +L1 option to find them always fails.

5.2.7 Why does Apple Darwin report
process group IDs incorrectly?"

The kmem version of lsof for Apple Darwin does not report
process group IDs correctly when requested to do so with its
``-g" option. This is a bug that surfaced after the libproc
version was released and access to kmem test systems has
prevented patching the bug.

If you are using the kmem version and would like a fix for this
problem, please send e-mail to me <abe@purdue.edu>. Make sure
"lsof" appears in the "Subject:" line so my e-mail filter won't
classify your letter as Spam.

5.3 Libproc-based Apple Darwin Questions

6.0 BSD/OS BSDI Problems

6.0.5 Statement of deprecation

As of lsof revision 4.76 support for BSDI BSD/OS has been
dropped. The 4.76 distribution of lsof for BSDI BSD/OS may be
found on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

7.0 DEC OSF/1, Digital UNIX, and Tru64 UNIX Problems

7.1 Why does lsof complain about non-existent /dev/fd entries?

When you run lsof for Digital UNIX 3.2, lsof may complain:

```
lsof: can't lstat /dev/fd/xxx: No such file or directory
lsof: can't lstat /dev/fd/yyy: No such file or directory
```

(Or it may warn about other missing /dev/fd paths.) When you do an ``ls /dev/fd" none of the missing paths are listed.

This is caused by a bug in the DEC library function getdirentries(). For some reason, when /dev/fd is a file system mount point, getdirentries() returns an incorrect size for it to readdir(). (Lsof calls readdir() in its ddev.c readdev() function.) Because of the incorrect size, readdir() goes past the end of the /dev/fd directory buffer, encounters random paths and returns them to lsof. Lsof then attempts to lstat(2) the random paths, gets error replies from lstat(2), and complains about the paths.

Duncan McEwan discovered this error and has reported it to DEC. Duncan also supplied an alternate readdir() function as a work-around. I've incorporated his readdir() in dialects/osf/ddev.c (as the static ReadDir() function) with
some slight modifications, and enabled its use when the USELOCALREADDIR symbol is defined.

The Configure script defines USELOCALREADDIR for Digital UNIX version and 3.2. If you don't want to use Duncan's local readdir() function, edit the Makefile and remove -DUSELOCALREADDIR from the CFGF string. When DEC releases a corrected getdirentries() function, I'll modify the Configure script to stop defining USELOCALREADDIR.

7.2 Why does the Digital UNIX V3.2 ld complain about Ots* symbols?

When you compile lsof on your Digital UNIX V3.2 system, ld may complain:

```
ld:
Unresolved:
knlist
_OtsRemainder32Unsigned
```

```
   _OtsDivide64Unsigned
   _OtsRemainder64Unsigned
   _OtsDivide32Unsigned
   _OtsMove
   _OtsDivide32
   _OtsRemainder32
   *** Exit 1
```

Chris Eleveld reports this happens on Digital UNIX V3.2 systems after the Fortran compiler has been installed.

The best work-around seems to be to remove -lmld from the CFGL string in the Makefile produced by Configure -- i.e., change:

```
   CFGL=    -lmld
```

to

```
   CFGL=
```

According to the V3.2 man page for nlist(3), this shouldn't work, but my testing shows that it does. Although I haven't been able to test this second work-around, you might try adding -lots to CFGL, rather than removing -lmld -- i.e., change:

```
   CFGL=    -lmld
```

to

```
   CFGL=    -lmld -lots
```

WARNING: my testing also shows that the V2.0 nlist(3) man page means what it says when it calls for -lmld -- lsof loaded without -mld under V2.0 can't locate the proc (process) table address.

   DON'T REMOVE -lmld FROM THE DIGITAL UNIX V2.0 MAKEFILE.

If you run into this problem, please let me know what problem you encountered and how you solved it.

7.3 Why can't lsof locate named pipes (FIFOs) under V3.2?

While lsof for V3.2 can report on named pipes (FIFOs), it can't find them by name. That appears to happen because of the way the V3.2 kernel lstat(2) function reports named pipe device numbers.

The

V3.2 kernel reports the device number as 0xffffffff,
while the kernel structures for named pipes that lsof
examines contain the device number of the file system on
which the named pipe resides.

Consequently, lsof can't match the device and inode number
pair it receives from applying lstat(2) to the named pipe
with any device and inode number pair it finds when scanning
kernel structures.

I don't have a work-around. You can, of course, ask for
full lsof output and use a post-processing filer (e.g.,
grep) to locate the named pipe of interest.

This problem doesn't exist under V2.0.

7.4 Why does lsof use the wrong configuration header files?
For example, why can't the lsof compilation find cpus.h?

DEC OSF/1, Digital UNIX, and Tru64 UNIX configuration header
files describe the hardware and software environment for
which your kernel boot file was constructed. For example,
/sys/<name>/cpus.h defines the number of CPUs in its NCPUS
#define.

Lsof searches for
the configuration header file subdirectory
in /sys (/usr/sys for Digital UNIX version 4.0 and Tru64
UNIX) by converting the first host name component to capital
letters -- e.g., TOMIS is derived from tomis.bio.purdue.edu.
If that subdirectory exists, lsof uses header files from
it. (Configure reports what subdirectory is being used.)

If Configure doesn't find a host-name derived subdirectory,
it prompts you for the entry of a subdirectory name. If
you can't find one, quit Configure and run the kernel
generation process to create a proper configuration sub-
directory. If you don't identify a proper configuration
subdirectory and you try to compile lsof, the compiler will
complain about missing header files -- e.g., a missing
cpus.h.

Once you have located or generated a proper configuration
subdirectory, rerun Configure. If you have generated a
configuration subdirectory whose name is derived from the
host name, Configure will find and use it. If not, you
will

have to specify its name to Configure.

7.5 Why does lsof indicate incomplete paths with " -- " for Tru64 UNIX 5.1 files?

When lsof can't find a component of a path in the kernel's name cache (aka DNLC), or can't determine that the left-most component has as its parent the file system root, it uses an "incomplete path" notation. That notation begins with the file system root name, followed by " -- ", followed by the consecutive path name components lsof was able to find in the DNLC -- e.g., "/ -- init".

Because the DNLC was significantly redesigned in Tru64 UNIX 5.1, lsof's handling of the cache had to be completely redone. As part of the DNLC redesign a name cache entry parameter lsof formerly used to locate the file system root of a path was removed. With help from Chang Song I've been able to implement an alternate method for detecting the root of these file system types: AdvFS (MSFS), CDFS, DVDFS, FDFS, NFS, NFS3, and UFS.

When lsof doesn't know how to identify
the root for a file
system type, it will resort to the " -- " incomplete path notation.

7.6 Why doesn't lsof report link count, node number, and size for some Tru64 5.x CFS files?

Lsof reports link count, node number, and size for open CFS files as recorded in their kernel node structure's cached attributes. Sometimes not all attributes are cached on the system where lsof runs, so lsof cannot report them.

7.7 Why does lsof say it can't read the kernel name list or proc table on Digital UNIX 4.x or Tru64 UNIX?

By default on Digital UNIX 4 and Tru64 UNIX lsof reads the addresses for kernel symbols with the knlist(3) function. That function can fail, for example, when the kloadsrv daemon isn't running or is malfunctioning. When that happens, lsof may abort with one of these error messages:

```
  lsof: can't read kernel name list from knlist(3): ...
or
  lsof: can't read proc table info
```

The first message suggests a complete knlist(3) or kloadsrv failure;
the second, a partial one.

If you know the name of the file from which the running system was booted, e.g., /vmunix, you can use lsof's -k option to direct it to read kernel symbol addresses from the name list of that file --

```
$ lsof -k /vmunix ...
```

If that works, then knlist(3) is malfunctioning and you need to fix it.

8.0 FreeBSD Problems

8.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open FreeBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

8.2 Why doesn't lsof work on my FreeBSD system?

If lsof doesn't work on your FreeBSD system, first make sure you have the latest lsof revision. See the answer to the "Where do I get lsof?" question for information on how to get the latest lsof revision.

Once you have gotten the latest lsof revision, Configure and make it. If Configure fails -- e.g., it complains about an unknown FreeBSD version -- then lsof probably hasn't
been ported to your FreeBSD version yet, and there's no need to go any further. Follow the answer to the "How do I report an lsof bug" to report the Configure complaint to me.

If you are able to Configure and make lsof, run its test suite. (See the answer to the "Is there a test suite?" question for more information on how to use lsof's test suite.)

If lsof still fails, make sure your kernel sources, kernel header files, kernel boot file, standard header files and libraries are synchronized. They should all be built from the same CVS refresh. (Don't forget to do a "make buildworld"

followed by a "make installworld".) If they aren't, then the KVM library or lsof may be using kernel structure definitions that don't match the booted kernel; or lsof may fail to compile properly because of header files in /usr/src/sys/sys and /usr/include/sys that don't match.

If you have synchronized your kernel, header files and libraries, and still can't get lsof to work, follow
the
steps in the answer to the "How do I report an lsof bug" question to report the problem to me.

8.3 Why doesn't lsof work on the RELEASE version of CURRENT?

Lsof tracks the CURRENT release of the current leading edge FreeBSD version, because my access to leading edge FreeBSD is limited to FreeBDSD.org reference systems, all running the CURRENT release.

Sometimes that tracking leads to changes in lsof that won't work on an earlier RELEASE version of the current leading edge version.

When that happens, please send e-mail to me <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

8.4 Why does kvm_open() complain it can't find some file?

If lsof issues this complaint:

```
lsof: kvm_open(execfile=/boot/kernel/kernel,
corefile=/dev/mem: No such file or directory
```

Your FreeBSD system might not have a /dev/mem device. If not, create one -- e.g., as root do:

```
# mknod /dev/mem c <major> 0

# chmod 440 /dev/mem
# chgrp kmem /dev/mem
```

For <major> use /dev/kmem's major device number.

You may have to run kldload, too -- again as root do:

```
# kldload mem
```

8.5 FreeBSD ZFS Problems

8.5.1 Why does FreeBSD lsof report "WARNING: no ZFS support has been defined."?

Lsof issues that message when it detects a file on a ZFS file system, but has not been built with support for ZFS. Lsof's Configure script detects support can be added for ZFS when it finds this file:

/usr/src/sys/contrib/opensolaris/uts/common/fs/zfs/sys/zfs_znode.h

That header file and others in the OpenSolaris files in /usr/src enable lsof to extract information about ZFS files from the kernel structures associated with them.

8.6 Why can't Configure create lsof_owner.h for FreeBSD 6 and above?

Lsof may report:

```
   Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see
00FAQ)
or
   Creating ./lockf_owner.h from /usr/src/sys/kern/kern_lockf.c
   FATAL ERROR: ./lockf_owner.h creation failed (see 00FAQ)
```

Those messages mean that lsof's Configure script failed to create a local header file, ./lockf_owner.h, needed to use the new kernel file locking code of some versions of FreeBSD 6 and above.

The changes that implement that new locking code alter the lockf structure in <sys/lockf.h> and introduce a new structure, lockf_entry, to that header file. When Configure detects the presence of the lockf_entry definition in <sys/lockf.h>, it tries to construct the local header file, ./lockf_owner.h.

Configure has to do that because an unfortunate side effect of the new kernel file locking code is that <sys/lockf.h> doesn't contain the lockf_owner structure definition referenced in its own lockf structure. Lsof needs to access elements of that lockf_owner structure to determine if a lock belongs to the process that has a file open.

The

missing lockf_owner structure definition is in the kernel source file, typically /usr/src/sys/kern/kern_lockf.c. Configure tries to extract the lockf_owner structure definition from kern_lockf.c into lsof's local header file, ./lockf_owner.h. If Configure can't do that, it reports:

    FATAL ERROR: ./lockf_owner.h creation failed

If Configure can't even read kern_lockf.c, it first reports:

    FATAL ERROR: can't read /usr/src/sys/kern/kern_lockf.c

The work-around for this problem is to update the FreeBSD kernel /usr/src tree (e.g., do a CVSup or csup) on the system where lsof is to be built and then do a "make buildworld" followed by a "make installworld".

8.6.1 Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?

If, when compiling lsof, the compiler complains with error messages like:

    dnode.c: In function 'get_lock_state':
    dnode.c:113: error: 'struct lockf' has no member named 'lf_flags'
    dnode.c:115: error: 'struct lockf'
has no member named 'lf_id'
    ...

Then lsof is being built on a system that has new kernel file locking code and lsof's Configure script failed to build a local lockf_owner.h header file with a structure definition lsof needs.

See the "Why can't Configure create lsof_owner.h for FreeBSD 6 and above?" section for more information and a work-around.

8.6.2 Why don't /usr/src/sys/sys/lockf.h and /usr/include/sys/lockf.h match?

This mismatch can cause the errors explained in the answer to the "Why are there lockf structure compiler errors for FreeBSD 6.0 and higher lsof?" question.

If /usr/src/sys/sys/lockf.h has been updated with a CVSup or csup, the new lockf.h won't be propagated to /usr/include/sys until the "make buildworld" and "make installworld" steps have been completed.

8.7 FreeBSD and clang

As of lsof revision 4.87, lsof may be compiled with clang.

8.7.1 Why does clang complain about VOP_FSYNC?

There is an error in the Solaris ZFS compatibility
vnode.h
header file with use of VOP_FSYNC before it is defined. No work-around is possible that will eliminate the clang compile-time warning message about the invalid declaration of the VOP_FSYNC function.

9.0 HP-UX Problems

9.1 What do /dev/kmem-based and PSTAT-based mean?

Lsof for HP-UX 11.0 and below uses /dev/kmem to read kernel data structures from which it gathers and reports open file information. That version of lsof is called /dev/kmem-based lsof.

Starting with HP-UX 10.10, finding definitions for the necessary kernel structures became more difficult as HP no longer distributed header files in /usr/include that defined all kernel structures. So I started "inventing" structure definitions by using Q4 to display them.

By HP-UX 11, the process of invention became extremely intensive to support. Following a patch to the ipc_s structure in early 1999, my invented definition of that structure became incorrect. Although I was able to devise a work-around
test for the patch with Q4, it was clear that
my inventions were bound to cause more problems.

Discussion with HP about the patch led to my proposing that an lsof API in the HP-UX kernel was the proper solution. Much to my surprise, HP agreed. I believe Carl Davidson was the prime mover behind that decision, but I know others participated, among them Louis Huemiller, Rich Rauenzahn, and Sailu Yallapragada. I am indebted to these folks and HP for their willingness to do this work.

The API was added to the PSTAT interface in a project named PEGL, Pstat Enhancements for Glance and Lsof. Louis and

Sailu did the bulk of the design and implementation work
and testing began in March, 2000

HP-UX 11.11 is the first version that provides PSTAT support
for lsof. HP-UX versions in between 11.0 and 11.11 -- all
Beta versions as far as I can determine -- have no lsof
support.

See the "PSTAT-based HP-UX lsof Questions" section for
questions and answers specific to PSTAT-based
HP-UX lsof.
The next section, "Why doesn't a /dev/kmem-based HP-UX lsof
compilation use -O?" covers /dev/kmem-based HP-UX lsof.

The /dev/kmem-based lsof sources may be found in the kmem
subdirectory of the dialects/hpux branch of the lsof source
tree. The PSTAT-based lsof sources may be found in
.../dialects/hpux/pstat.

9.2 /dev/kmem-based HP-UX lsof Questions

The sources for /dev/kmem-based lsof for HP-UX may be found
in lsof_<revision>/dialects/hpux/kmem.

Lsof's Configure shell script decides to use these sources
when it finds that the /usr/include/sys/pstat subdirectory
doesn't exist.

Lsof can be forced to use the /dev/kmem sources by setting
"/dev/kmem" in the HPUX_BASE environment variable. Consult
the Configure shell script and 00XPORTING for more information.

9.2.1 Why doesn't a /dev/kmem-based HP-UX lsof compilation use -O?

If you only have the standard (bundled) HP-UX C compiler
and haven't purchased and installed the optional one, then
you can't use
cc's -O option. The HP-UX cc(1) man page
says this:

"Options
Note that in the following list, the cc and c89 options
-A , -G , -g , -O , -p , -v , -y , +z , and +Z are
not supported by the C compiler provided as part of
the standard HP-UX operating system. They are supported
by the C compiler sold as an optional separate product."

Lsof's Configure script tries to detect what C compiler

product you have installed by examining your compiler. If
that examination reveals a standard (bundled) compiler,
lsof avoids using -O.

If the Configure compiler test fails, the C compiler will
complain that it doesn't support -O. You can suppress that
complaint with this make invocation:

```
$ make DEBUG=""
```

9.2.2 Why doesn't the /dev/kmem-based CCITT support work under 10.x?

Pasi Kaara, who originally provided the HP-UX CCITT support,
reports that it no longer works under HP-UX 10.x.
Consequently, at lsof revision 4.02 it has been disabled.

9.2.3 Why
can't /dev/kmem-based lsof be compiled with `cc -Aa` or
`gcc -ansi` under HP-UX 10.x?

Some HP-UX 10.x header files, needed by lsof, can't be
compiled properly in ANSI_C mode; structure element definition
and alignment problems result. The f_offset member of the
file structure, for example, is incorrect.

This ANSI-C obstacle extends to using the -Aa option of
the HP C compiler and the -ansi option of gcc.

9.2.4 Why does /dev/kmem-based lsof complain about no C compiler?

Lsof's Configure script looks in /bin and /usr/ccs/bin for
an HP C compiler, because it needs to know if the compiler
is the standard (bundled) one or the optional separate
product. If it finds no compiler in either place, Configure
quits after complaining:

```
No executable cc in /bin or /usr/ccs/bin
```

If you don't have a C compiler in either of these standard
places, you should consider installing it. If you have
gcc installed, you can use it by declaring the ``hpuxgcc''
abbreviation to lsof's
Configure script.

If you have a C compiler in a non-standard location, you
can use the HPUX_CCDIR[12] environment variables to name
the path to it. Consult the 00XCONFIG file of the lsof
distribution for more information.

9.2.5 Why does Configure complain about q4 for /dev/kmem-based lsof for HP-UX 11?

When you run Configure on an HP-UX 11 system, it may complain:

```
!!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!
Configure can't use /usr/contrib/bin/q4 to examine the ipis_s
structure.  You must do that yourself, report the result in
the HPUX_IPC_S_PATCH environment variable, then repeat the
Configure step.  Consult the Configure script's use of
/usr/contrib/bin/q4 and the 00XCONFIG file for information
on ipis_s testing and the setting of HPUX_IPC_S_PATCH.
!!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!  !!!ERROR!!!
```

This message states that Configure cannot use q4 from /usr/contrib/bin to examine the kernel's boot image for the ipis_s structure. Maybe q4 hasn't been installed, or perhaps Configure can't execute it.

Lsof needs to gather information about ipis_s to determine if the ipis_s structure is defined in the kernel boot image, if the ipis_s structure of the kernel boot image has an ipis_msgsqueued member, and if the ipc_s structure of the kernel boot image uses has an ipc_ipis member.

The ipis_s structure isn't described in any header file HP-UX releases with HP-UX 11. It appears in the private lsof header file .../dialects/hpux/kmem/hpux11/ipc_s.h. Lsof gets local and remote connection addresses (IP and port numbers) from ipc_s, so an incorrect ipc_s definition may cause incorrect reporting of TCP/IP connection addresses. It definitely will cause incorrect reporting on 32 bit kernels. In any case lsof should be compiled with a correct ipc_s definition no matter the kernel bit size, so the Configure script always tests for it when the HP-UX version is 11.

For lsof's Configure script to gather the necessary ipis_s information q4 needs to be installed in /usr/contrib/bin and the kernel boot image, /stand/vmunix, needs to have been processed with pxdb. If either is untrue, lsof issues the above error message, perhaps preceded by q4 messages. (Note: lsof's use of q4 may also fail if q4 can't execute nm -- e.g., it can't find /usr/bin/nm, or there is a conflicting, private version of nm earlier in the path.)

If /stand/vmunix hasn't been processed by pxdb, the q4
messages will include:

```
   q4: (error) vmunix not pxdb'd
```

or

```
   q4: (warning) /stand/vmunix has not been processed by pxdb.
```

It's possible to make a suitable private copy of /stand/vmunix
for configuring lsof. That requires /opt/langtools/bin/pxdb
or the q4 version of pxdb from /usr/contrib/bin/q4pxdb.
The path to the result is supplied to the lsof Configure
script in the HPUX_BOOTFILE environment variable. Configure
still requires /usr/contrib/bin/q4.

The following sample Bourne shell
commands make a private
copy of /stand/vmunix in /tmp, process it with pxdb or
q4pxdb, and supply its path to lsof's Configure script in
HPUX_BOOTFILE.

```
   $ cp /stand/vmunix /tmp/vmunix.lsof

   $ /opt/langtools/bin/pxdb /tmp/vmunix.lsof
  or
   $ /usr/contrib/bin/q4pxdb /tmp/vmunix.lsof

   ... pxdb messages ...
   $ HPUX_BOOTFILE=/tmp/vmunix.lsof Configure -n hpux
```

It may also be necessary to use q4 outside the lsof Configure
script. In that case q4 can be to determine the state of
ipis_s and ipc_s with these q4 commands:

```
   $ /usr/contrib/bin/q4 /stand/vmunix
   ...
   q4> fields -c struct ipc_s
   ...
   q4> fields -c struct ipis_s
```

Look in the q4 output for the ipc_ipis member of the ipc_s
structure, and look in the q4 output for the ipis_s structure
for the ipis_msgsqueued member. If ipc_s has ipc_ipis but
ipis_s lacks ipis_msgsqueued, set HPUX_IPC_S_PATCH environment
variable to "1". If ipc_s has ipc_ipis and ipis_s has
ipis_msgsqueued, set
HPUX_IPC_S_PATCH to "2" -- e.g.,

```
    $ HPUX_IPC_S_PATCH=1 Configure -n hpux
  or
    $ HPUX_IPC_S_PATCH=2 Configure -n hpux
```

If ipc_s has no ipc_ipis member, set HPUX_IPC_S_PATCH to "N" -- e.g., use this Configure step:

```
    $ HPUX_IPC_S_PATCH=N Configure -n hpux
```

9.2.6 When compiling /dev/kmem-based lsof for HP-UX 11 what do the "aCC runtime: ERROR..." messages mean?

When the lsof Makefile asks the HP-UX unbundled compiler to load lsof, it may complain:

```
    /bin/cc -o lsof  -DHPUXV=1100 -DHASVXFS -DHPUXKERNBITS=64 \
  -I/home/abe/src/lsof4/dialects/hpux/kmem/hpux11 +DD64 \
  -DHAS_IPC_S_PATCH=2 -I/home/abe/src/lsof4/dialects/hpux/kmem \
  -DLSOF_VSTR=\"B.11.00\"  -g dfile.o dmnt.o dnode.o dnode1.o \
  dnode2.o dproc.o dsock.o  dstore.o  arg.o main.o misc.o \
  node.o print.o proc.o store.o usage.o -L./lib -llsof  -lelf \
  -lnsl
    aCC runtime: ERROR: Unexpected use of shared libraries
    aCC runtime: ERROR: Read aCC manpage, +A option
    /usr/lib/nls/loc/locales.1//is_IS.iso88591
```

This is a bug in the HP-UX national language support. (Notice the last message with "locales" in it?) Complain to HP -- then use this work-around before executing make:

```
    $ unset LANG
    $ make
```

9.2.7 Why doesn't /dev/kmem-based lsof for HP-UX 11 report VxFS file link counts, node numbers, and sizes correctly?

This is usually the result of running an lsof binary whose revision number is less than 4.57 on a system that has OnlineJFS support installed. It can also happen with lsof 4.57 binaries when the OnlineJFS support with which they were built doesn't match the OnlineJFS status of the system on which they are run.

The OnlineJFS status of lsof 4.57 and higher binaries can be determined by running:

```
    $ lsof -v 2>&1 | grep HASONLINEJFS
```

If that shell pipe produces output, lsof was compiled with
OnlineJFS support enabled; no output, disabled.

If OnlineJFS is installed on an HP-UX 11 system the
/sbin/fs/vxfs/subtype executable exists and outputs
"vxfs3.3"
when run.

The problem occurs because the optional OnlineJFS support
installation doesn't update <sys/fs/vx_inode.h>. Consequently
lsof can be compiled with an incorrect definition of the
vx_inode structure and look for for link counts, node
numbers, and sizes in the wrong places in the structure.

The current response I have gotten from HP is that no
<sys/fs/vx_inode.h> update will be provided for OnlineJFS.

I've addressed this problem temporarily with a work-around
(hack) in lsof revision 4.57.

9.2.8 Why can't /dev/kmem-based lsof be built with gcc for 64 bit
HP-UX 11?

When Configure is given the "hpuxgcc" abbreviation, the
HP-UX version is 11, and the kernel bit size is 64, the
lsof Configure script may abort with the messages:

```
!!!!!!!!!!!!!!!! FATAL ERROR !!!!!!!!!!!!!!!!!!

APPARENTLY GCC CANNOT BUILD 64 BIT EXECUTABLES.
A COMPILER MUST BE USED THAT CAN.  SEE 00FAQ
FOR MORE INFORMATION.
```

(This is the "more information" in 00FAQ.)

This
means the Configure script compiled a test program
with gcc the result wasn't an ELF-64 binary. Lsof tries
two gcc modes, one with no options and another with the
-mlp64 option, before it concludes gcc can't be used.

See the "How can I acquire a gcc for building lsof for 64
bit HP-UX 11?" answer for information on where you might
be able to get a gcc for HP-UX 11 that can produce ELF-64
executables.

9.2.8.1 How can I acquire a gcc for building lsof for 64 bit HP-UX 11?

Check this HP URL:

http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1,1703,547,00.html

(That's one very long link; be careful you cut 'n paste it
all.)

In November 2001 that URL led to a web page whose title
was "gcc for hp-ux 11." The page offered a link for
downloading a 64 bit gcc 3.0 compiler for HP-UX 11.0 and
11i. Rich Rauenzahn of HP installed that compiler on an
HP test system he allows me to use and I successfully built
a 64 bit lsof with it.

The HP package
may install the 64 bit capable gcc in
/usr/local/pa20_64/bin/gcc, so you may have to adjust your
path or set the LSOF_CC environment variable to compensate.

9.2.9 Why does /dev/kmem-based lsof for HP-UX 11 report "unknown file system type" for some open files?

The lsof binary being used probably doesn't have support for
the VxFS file system.

To confirm that, check `lsof -v` output for "-DHASVXFS". If
it's not present, lsof doesn't have VxFS support.

You also need to establish that lsof really is complaining
about VxFS files by checking the kernel boot file for the
symbol associated with the hexadecimal address reported in the
"unknown file system type" message -- e.g., "v_op: 0x8711c8."
Use nm(1) to do that:

```
$ nm -x /stand/vmunix | grep 8711c8
```

If nm reports the symbol associated with the address is
vx_vnodeops, then lsof is complaining about an open VxFS file.

The solution in that case is to build lsof yourself (The
bundled C compiler will do it.),
making sure that lsof's
Configure script detects the presence of VxFS. Configure does
that by finding these two header files:

```
/usr/include/sys/fs/vx_hpux.h
/usr/include/sys/fs/vx_inode.h
```

If the system where you are building lsof doesn't have those
header files, but does have VxFS, you might be able to install
the header files by installing the HP JournalFS package from
the CoreOS CD -- in particular the file set JournalFS.VXFS-PRG
and its associated patch, PHKL_18543. (My thanks to Steve
Bonds for that information.)

Finally, if you find that lsof isn't complaining about VxFS
when it complains about an unknown file system type, send
e-mail to me <abe@purdue.edu> for further assistance. Make
sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

9.2.10 Why does the ANSI-C compiler complain about comments in HP-UX
11 header files?

When compiling lsof on HP-UX 11, the HP ANSI-C compiler's
pre-processor, cpp, may
complain about comments in HP-UX header
files -- e.g.,

```
   cpp: "/usr/include/sys/cdfs.h", line 232: warning 2028:
 Found comment inside comment started on line 232.
   cpp: "/usr/include/sys/cdnode.h", line 196: warning 2028:
 Found comment inside comment started on line 196.
   cpp: "/usr/include/nfs/snode.h", line 30: warning 2028:
 Found comment inside comment started on line 30
```

This is not a problem with lsof. It is a problem with the
HP-UX header files; they have non-compliant ANSI-C comment
sequences in them -- e.g.,

```
   <sys/cdfs.h>: 232
 /* struct  cdfs *cdfs_link;  /* linked list of file systems */
```

The initial "/*" is not terminated by an ending "*/" before the
appearance of a second "/*".

9.2.11 Why does dnode1.c cause the HP-UX 11 compiler to complain that
<sys/fs/vx_inode.h> is missing or incorrect?

If CFLAGS in the lsof Makefile for an HP-UX 11 compilation
includes HASONLINEJFS, indicating the system has OnlineJFS
support, lsof needs the <sys/fs/vx_inode.h>
header file.
Sometimes it is missing from /usr/include/sys/fs.

<sys/fs/vx_inode.h> is a header file that must be obtained from
Veritas. If that proves impossible, please contact me via
e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the
"Subject:" line so my e-mail filter won't classify your letter
as Spam.

9.3 PSTAT-based HP-UX lsof Questions

The sources for PSTAT-based lsof for HP-UX may be found in
lsof_<revision>/dialects/hpux/pstat.

Lsof's Configure shell script decides to use these sources
when it finds that the /usr/include/sys/pstat subdirectory
exists.

Lsof can be forced to use the PSTAT-based sources by setting
"pstat" in the HPUX_BASE environment variable. Consult
the Configure shell script and 00XPORTING for more information.

9.3.1 Why does PSTAT-based lsof complain about pst_static and other PSTAT structures?

When lsof starts it may issue one of these fatal error
messages:

```
lsof: FATAL: can't determine PSTAT static size

lsof: FATAL: can't read <n> bytes of pst_static
lsof: FATAL: pst_static doesn't contain <name>_size
lsof: FATAL: <name>_size should be <n>
```

These messages indicate that lsof's tests for the proper
level of PSTAT support have failed. The structure names,
given in <name>, and sizes, given in <n>, identify the
support deficiency more precisely.

You may need to upgrade the PSTAT support in your kernel
to be able to use PSTAT-based lsof.

9.3.2 Why does PSTAT-based lsof complain it can't read pst_* structures?

Lsof may put messages like the following in the NAME
column of its output.

```
can't read cwd pst_filedetails: Permission denied
can't read mem pst_filedetails: Permission denied
```

can't read rtd pst_filedetails: Permission denied
can't read txt pst_filedetails: Permission denied
can't read pst_filedetails: Permission denied
can't read 3 stream structures: Permission denied
can't read pst_socket: Permission denied

These messages
indicate that the lsof binary lacks the
authority to read the name structures for processes other
than ones belonging to the UID under which lsof is running.
Authority to read the structures of other processes is
limited to root processes -- i.e., lsof must have setuid-root
permission if it is to list open files for arbitrary
processes.

If you want to eliminate these errors, you must run lsof
as root or install it with setuid-root permission.

9.3.3 Why does PSTAT-based lsof rebuild the device cache file
after each reboot?

After each HP-UX rebuild, the first time a user runs lsof it
will report:

lsof: WARNING: device cache mismatch: /dev/tun...
lsof: WARNING: created device cache file: /<user_path>

This happens because the device numbers on /dev/tun* device
nodes are recalculated at each reboot. When lsof detects
a change in the device number of a /dev/tun* file, it rebuilds
its local device cache file.

9.3.4 Why doesn't PSTAT-based lsof report TCP addresses
for
telnetd's open socket files?

When lsof can't report TCP addresses for telnetd's open
socket files it is because an unpatched PSTAT kernel
interface doesn't report the addresses to lsof.

This has been addressed in PSTAT kernel patch PHKL_24047.
It is available from the HP IT Resource Center at:

http://itrc.hp.com

In the page's "maintenance / support" box select the
"individual patches" link. Once at its page, select the
"hp-ux" link. On that page select the "Series 800" or

"Series 700" radio button and select "11.11" from the
pull-down list to the right of the button. Under "search
or browse the path list" select "Search by Patch IDs" from
the pull down list, enter PHKL_24047 in the following text
box, and select search. That should lead to information
about PHKL_24047 and a link for downloading it. (You may
have to log in first and you may have to create a login
identity by registering before you can log in.)

Some time in March 2006 the PHKL_24047
patch was "lost"
by the HP-UX networking lab. It has been "found" again
in August 2006 and will be re-released as a GRO patch
"some time." I don't yet know when that will be. You
must contact HP to learn about the availability of the
GRO patch.

9.3.5 Why does PSTAT-based lsof cause an HP-UX 11.11 kernel panic?

When PSTAT-based lsof runs on some HP-UX 11.11 kernels,
the kernel may panic. Symptoms include:

Console message:
0xFBE000301100EF00 00000000 0000EF00 -
type 31 = legacy PA HEX chassis-code

/var/adm/syslog:
... vmunix: Trap Type 15 (Data page fault)
... vmunix: Instruction Address (pcsq.pcoq) = 0x...

The panic is caused by a bug in the way PSTAT's pstat_getstream()
function obtains module names from streams managed by the
otsam stream driver (part of OSI Transport Services). Lsof
calls pstat_getstream() when it encounters an open otsam
stream file. An HP-UX 11.11 system uses otsam if otsam
appears in /stand/system.

HP-UX
11.11 patch PHKL_24507 (available some time after
July 15, 2001) fixes the pstat_getstream() bug. See the
information in the answer to the "Why doesn't PSTAT-based
lsof report TCP addresses for telnetd's open socket files?"
question for information on how to obtain the patch.

9.3.6 Why doesn't PSTAT-based lsof report a CWD that is on a loopback
(LOFS) file system?

When PSTAT-based lsof reports on processes whose current

working directory (CWD) is on a loopback file system, lsof
can't report the open CWD file. The reason is that the HP-UX
11.11 and above kernel's loopback file system code is not
passing the CWD file ID to the kernel's pstat(2) code. Hence
lsof is given no information on the lofs CWD.

The problem was first reported to me by Ermin Borovac and an
internal bug report was filed with the HP-UX file system group
on October 26, 2004. That report has now been answered by the
patch PHKL_33200 -- s700_800 11.11 lofs cumulative patch. The
HP IT Resource
Center (http://itrc.hp.com) is a source for the
patch.

9.3.7 Why do some swinstall packages for PSTAT-based HP-UX 11.11
packages complain about setgid and setuid bits?

First, let me explain that I do not provide lsof swinstall
packages for lsof. Others provide them and they should be
contacted about problems with their packages.

However, I have become aware of a problem with one package
about which I have some information I can share. The problem
shows up in these swinstall messages:

```
ERROR:   Unknown owner and/or group for file
  "/usr/local/bin/lsof". SUID and/or SGID bit was
  not set.
ERROR:   Failed installing fileset "lsof.lsof-RUN,r=4.73".
  Check the above output for details.
```

The swpackage SUID/SGID functionality was restricted by changes
for POSIX compliance, breaking backward compatibility. The
patch PHCO_27671 allows SUID/SGID for uid/gid of 0 only, as a
compromise between backward compatibility and POSIX conformance.

If the setuid
bit is to be set on the executable, the UID and
GID of the executable must be 0 (zero).

9.3.8 Why won't the bundled C compiler build PSTAT-based lsof for
PA-RISC HP-UX 11.23?

A PA-RISC HP-UX 11.23 bundled C compiler dated May 2005 or
later will not build PSTAT-based lsof. It will deliver error
messages related to the system's <gssapi/gssapi.h> header
file.

There is nothing wrong with that header file or lsof. The problem is that the bundled C compiler can't cope with the gssapi.h header file.

The work-around is to use the HP ANSI C compiler. Using gcc is not a satisfactory work-around. See the answer to the "Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?" question for more information.

9.3.9 Why won't gcc build PSTAT-based lsof for PA-RISC HP-UX 11.23?

Gcc will not even compile PSTAT-based lsof revisions below 4.77 for PA-RISC HP-UX 11.23 dated May 2005 or later. It reports errors in lsof's print.c fill_portmap() function about missing members
of the rpcent structure. That happens because gcc defines _XOPEN_SOURCE_EXTENDED which disables the definition of the rpcent structure in <netdb.h>.

Using the HP bundled C compiler is not a viable work-around. That is explained in the answer to the "Why won't the bundled C compiler build PSTAT-based lsof for PA-RISC HP-UX 11.23?"

While an lsof revision 4.77 or higher can be compiled with gcc, the results are unreliable. Lsof will compile, but it occasionally produces segment faults when it runs. I have not been able to reproduce the failure reliably or locate a debugger that will work with the gcc-compiled lsof.

The only reliable work-around is to use the HP ANSI C compiler.

9.3.10 Why does PSTAT-based lsof complain, "FATAL: pst_stream_size should be: 672; is 72" on HP-UX 11.11 and above?

This message indicates a mismatch between the PSTAT header files used to build lsof (<sys/pstat.h> and those in the /usr/include/sys/pstat subdirectory), and those that built the
running kernel.

Unfortunately the June 2008 patch set for HP-UX 11.23 creates this inconsistency, because it does not contain all the patches needed to match the kernel with the PSTAT header files. Even more serious is that the missing patches update the kernel's PSTAT support to provide TCP/UDP endpoint information to lsof from TCP/TLI streams.

The patch inconsistency comes about because, while the following patch is installed,

PHKL_36577 1.0 PM-PSTAT section 2 manpage changes

other kernel patches are not.

The PHKL_36577 patch updates the PSTAT header files and manual pages to match kernel changes that other patches with the following numbers (or patches that contain or supersede them) contain:

PHNE_36575 1.0 Cumulative STREAMS Patch
PHNE_37670 1.0 cumulative ARPA Transport patch
PHNE_37851 1.0 NFS cumulative patch

Those patches implement the kernel changes that support the delivery of information promised in patch PHKL_36577.

The
work-around is to install the missing patches.

9.4 Why won't the HP-UX depot install?

I don't distribute lsof depots, so I can't support them.

From time to time depots prepared by various sites -- e.g., usually HP-UX software collection sites -- will contain errors that cause installation of the depot to fail.

Do not contact me when this happens. Instead, contact the administrator of the site that prepared the depot.

As should be clear from the bulk of the lsof documentation, I do not recommend you use pre-built lsof binaries in any form. Instead, I recommend you obtain the lsof source distribution and build lsof yourself.

10.0 Linux

10.1 What do /dev/kmem-based and /proc-based lsof mean?

At approximately Linux 2.1.72 and exactly at lsof revision 4.23 support for Linux forks. The first fork, containing the oldest lsof form is based on access to kernel memory structures, and is called /dev/kmem-based lsof. A /dev/kmem-based lsof is heavily intertwined

with the Linux
kernel version, its header files, and its system map file.
Typically a /dev/kmem-based lsof needs only setgid permission
to local all open file information.

After approximately Linux 2.1.72 and at revision 4.23 lsof
obtains all its information from the /proc file system.
That lsof is called the /proc-based lsof. A /proc-based
lsof does not read kernel memory, needs neither kernel
header files nor the system map file, and is less likely
to be affected by Linux kernel changes. However, it does
require setuid-root permission to list all open files, and
it can't report file offsets (positions).

After revision 4.52 the /dev/kmem-based Linux sources for
lsof are no longer distributed. Information about them
may be found in the 00INDEX and README files at:

    ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD/src

10.2 /proc-based Linux lsof Questions

10.2.1 Why doesn't /proc-based lsof report file offsets (positions)?

/proc-based lsof revisions 4.79
and above can only report file
offsets (positions) for the files of Linux kernels 2.6.22 and
above.

During its initialization /proc-based lsof tests to see if
offset information can be obtained. If it cannot, lsof
disables offset reporting. If the -o option was selected, lsof
also issues this warning:

    lsof: WARNING: can't report offset; disregarding -o.

10.2.2 Why does /proc-based lsof report "can't identify protocol" for some socket files?

/proc-based lsof may report:

```
    COMMAND PID ... TYPE ... NODE NAME
    pump    226 ... sock ...  309 can't identify protocol
```

This means that it can't identify the protocol (i.e., the
AF_* designation) being used by the open socket file. Lsof
identifies protocols by matching the node number associated

with the /proc/<PID>/fd entry to the node numbers found in
selected files of the /proc/net sub-directory. Currently
/proc-based lsof examines these protocol files:

/proc/net/ax25 (untested)
/proc/net/icmp

/proc/net/ipx (needs kernel patch)
/proc/net/netlink
/proc/net/packet
/proc/net/raw
/proc/net/raw6
/proc/net/sctp/assocs
/proc/net/sctp/eps
/proc/net/sockstat
/proc/net/sockstat6
/proc/net/tcp
/proc/net/tcp6
/proc/net/udp
/proc/net/udp6
/proc/net/udplite
/proc/net/udplite6
/proc/net/unix

If /proc-based lsof says it can't identify the protocol
for an open socket file, you may be able to identify the
protocol yourself by using grep to look for the specific
node number in the files of /proc/net -- e.g.,

$ grep <node_number> /proc/net/*

You may not be able to find the desired node number, because
not all kernel protocol modules fully support /proc/net
information.

If you find a matching node number in a /proc/net file that is
not currently being processed by lsof, contact me via e-mail at
<abe@purdue.edu>. I'll discuss adding support to /proc-based
lsof for the protocol of the /proc/net file
with you. Make
sure "lsof" appears in the "Subject:" line so my e-mail filter
won't classify your letter as Spam.

The code that matches node numbers of open IPX protocol
socket files to those in /proc/net/ipx requires Jonathan
Sergent's Linux 2.1.79 patch to /usr/src/linux/net/ipx/af_ipx.c.
The patch, suitable for input to Larry Wall's patch program,
may be found in the lsof distribution file:

.../dialects/linux/proc/patches/net_ipx_af_ipx.c.patch

10.2.3 Why does /proc-based lsof warn about unsupported formats?

Lsof may issue the following warning:

lsof: WARNING: unsupported format: /proc/net/<file>

if the header line of the indicated <file> in /proc/net --
ax25, ipx, raw, tcp, udp, or unix -- doesn't match what
lsof expects to find.

When the header line of a /proc/net file isn't what lsof
expects, lsof probably can't parse the rest of the file
correctly and doesn't try. As a result, lsof can't report
any NAME column information (e.g., local and remote
addresses)
for socket files bound to the indicated network protocol.

If you get this warning, please send me e-mail at <abe@purdue.edu>.
Include the contents of the file lsof claims has an unsupported
format. Make sure "lsof" appears in the "Subject:" line so my
e-mail filter won't classify your letter as Spam.

10.2.4 Why does /proc-based lsof report "(deleted)" after a path name?

The "(deleted)" notation following a path name in /proc-based
lsof's NAME column comes from the /proc/<PID>/fd/<FD> entry
for the open file. It's the Linux kernel's way of indicating
the file is open but has been unlinked (rm'd).

10.2.5 Why doesn't /proc-based lsof report full open file information
for all processes?

/proc-based lsof can only report on processes whose /proc
files it has permission to read. /proc normally grants
permission to read all its files only to root or to the
owning user ID.

Without permission to read most /proc files, lsof can only
report full information for
processes belonging to the user
who is running lsof. /proc-based lsof may be able to report
some information for all processes, depending on the
permissions of their associated /proc files, but usually
/proc-based lsof won't be able to access the files in
/proc/<PID>/fd/ that describe regular open files.

If you want /proc-based lsof to report on all processes, you
must install it with setuid-root permission.

10.2.6 Why won't Customize offer to change HASDCACHE or WARNDEVACCESS for /proc-based lsof?

/proc-based lsof doesn't read device information from /dev
or the device cache file, so it makes no sense to change
the state of device cache processing or /dev node accessibility
warnings.

10.2.7 /proc-based lsof Linux NFS questions

10.2.7.1 Why can't lsof find files on an accessible NFS file system?

On occasion lsof may be unable to identify that an open
file is on an NFS file system. This is most likely the
result of a bug in the way the Linux kernel supplies
information
to the reader of /proc/mounts (lsof) -- sometimes
that pseudo-file is truncated by the kernel.

One way to see if this is the case is to search for the
NFS file system in /proc/mounts -- e.g.,

    $ grep <NFS_file_system_mount_point> /proc/mounts

If you get no output or the third word of the output isn't
"nfs", then lsof won't consider the file system an NFS file
system.

A second test is to look at the end of /proc/mounts --
e.g.,

    $ tail /proc/mounts

If tail reports "# truncated" then /proc/mounts is incomplete
because of a Linux kernel bug. The bug is documented at:

    http://www.xss.co.at/sysinfo/mounts.html

The bug is fixed in Linux kernel 2.4.18, and possibly in
some earlier Linux kernel versions.

10.2.7.2 Why can't lsof find files on an inaccessible NFS file system?

If lsof issues this message about a Linux file system,

mounted from an NFS server:

lsof: WARNING: can't stat() nfs file system /xxx/yyy

Then lsof won't be able to find
any open files on the file
system.

That's because of an inadequacy in the Linux /proc file system. Its /proc/mounts file doesn't give the device doublet (major and minor numbers) of the file system as do many UNIX systems (e.g., Solaris). The only way lsof can get the device doublet for a Linux file system is to call stat(2) on the file system path, which fails if the NFS server isn't accessible.

When lsof doesn't know the device doublet of a file system, it can't find open files on the inaccessible file system, because it can't match the doublets of open files to the doublet of the inaccessible file system.

This topic is covered extensively in lsof(8) it its ALTERNATE DEVICE NUMBERS and BLOCKS AND TIMEOUTS sections.

10.2.8 Why doesn't /proc-based Linux lsof report socket options and values, socket state flags, and TCP options and values?

The Linux /proc file system doesn't report socket options and values, socket states, and TCP options and values to lsof.

10.2.9 Does
/proc-based Linux lsof use a device cache?

No. The Linux /proc/<PID>/fd/* entries provide device names to lsof via readlink(2). It is not necessary to enable device cache processing for /proc-based Linux lsof via the Customize script or modifications to the Linux machine.h header file.

10.2.10 Why doesn't /proc-based Linux lsof report any or all file structure values for its +fcfgGn option?

/proc-based lsof revisions 4.79 and above can only report some file structure values for Linux kernels below 2.6.22.

When running on Linux kernels at 2.6.22 and above lsof 4.79 can report some file flag values -- i.e., in response to the +fg or +fG options. The flag values are obtained from the

/proc/<PID>/fdinfo/ files introduced at Linux kernel 2.6.22.

/proc-based Linux lsof tests its availability to obtain file
flag values at initialization. If values are not available,
lsof disables file flag reporting. If the flags were requested
with +fg or +fG, lsof displays
this warning:

    lsof: WARNING: can't report file flags; disregarding +f.

As a special note, when Linux lsof can report flag bits, it
will not report 'R' for a read-only file. There is no
read-only flag bit O_* symbol in <fcntl.h> (or <bits/fcntl.h>)
and lsof reports only bits that are set. The absence of O_RDWR
and O_WRONLY flag bits implies the file is read-only.

10.3 Special Linux file types

10.3.1 Why is ``DEL'' reported as a Linux file type?

Lsof usually reports entries from the Linux /proc/<PID>/maps
file with ``mem'' in the TYPE column. However, when lsof can't
stat(2) a path in the process' ``maps'' file and the ``maps''
file entry contains ``(deleted)'', indicating the file was
deleted after it had been opened, lsof reports the file type as
``DEL''.

10.3.2 Why is ``unknown'' reported as a Linux file type?

Lsof may report a Linux file's type as ``unknown'' in the TYPE
column when lsof can't obtain complete stat(2) results for the
file.

Usually the NAME
column will contain a ``(stat: xxx)'' error
message, but that could have been suppressed with the lsof
``-w'' option.

10.4 Linux ``mem'' Entry Problems

10.4.1 What do ``path dev=xxx'' and ``path inode=yyy'' mean in the
NAME column of Linux ``mem'' file types?

When the device or inode number in the process' ``maps'' file
entry doesn't match the stat(2) results from the file path,
lsof reports the inconsistent information from the stat(2) of
the path parenthetically after the path in the NAME column
in one of these forms:

(path dev=xxx) only the device number,
``xxx", from a stat(2) of the
``maps" file entry path
differs from the ``maps" file
entry value reported in the
DEVICE column.

(path inode=yyy) only the inode number,
``yyy", from a stat(2) of the
``maps" file entry path
differs from the ``maps" file
entry value reported in the
NODE column.

(path dev=xxx inode=yyy) Both device
and inode numbers
differ.

Lsof reports the ``maps" file device number in the DEVICE column and the inode number in the NODE column.

When device and inode mismatches occur, lsof suppresses the reporting of link count and size. See the answer to the "Why is neither link count nor size reported for some Linux ``DEL" and ``mem" file types?" question for more information.

Device and inode inconsistencies can occur when a file at a ``maps" path is replaced after the process has started, or when a different file system with similar path names is mounted on top of the original file system.

The device inconsistency parenthetical messages can be suppressed with lsof's ``-w" option.

10.4.2 Why is neither link count nor size reported for some Linux ``DEL" and ``mem" file types?

Link count and size are not reported for some entries from the process' ``maps" file because a stat(2) of the entry file path failed or stat(2) delivered device or inode numbers that don't match
the ones in the ``maps" entry.

When the stat(2) device or inode numbers don't match those in the ``maps" file entry, it is likely that the stat(2) results don't apply to the file that was originally mapped by the process and whose path appears in the ``maps" file entry, so

lsof tries to avoid reporting possibly incorrect information.

See the answer to the "What do ``path dev=xxx" and ``path inode=yyy" mean in the NAME column of Linux ``mem" file types?" for more information on how mismatched stat(2) device and inode numbers are reported.

10.5 Special Linux NAME column messages

10.5.1 What does ``(stat: xxx)" mean in the NAME column of Linux files?

When lsof tried to stat(2) the path in the NAME column, the stat(2) system call failed and produced an error message of ``xxx".

This situation usually occurs if the lsof process lacks permission to stat(2) the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a path
on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w" option.

10.5.2 What does ``(readlink: xxx)" mean in the NAME column of Linux files?

When lsof tried to convert the /proc/<PID>/fd path, reported in the NAME column, to its full and more meaningful path, the readlink(2) system call used to do the conversion failed. The readlink(2) failure message is ``xxx".

This situation usually occurs if the lsof process lacks permission to readlink(2) some part of the path -- e.g., the lsof executable lacks root permission, or lsof is attempting to stat(2) a path on an NFS device mounted with the root_squash option.

The message can be suppressed with lsof's ``-w" option.

10.6 Why is ``NOFD" reported as a Linux file type?

When lsof lacks permission to use opendir() on the fd/ subdirectory of a process' /proc/<PID> directory, it reports a single file of the type ``NOFD" (for no file descriptors).

Lsof reports the the

/proc/<PID>/path in the NAME column,
followed by "(opendir: xxx)", where ``xxx" is the error
message returned by opendir().

The ``NOFD" entry can be suppressed with lsof's ``-w" option.

10.7 Why does Linux lsof report a NAME column value that begins with ``/proc"?

When lsof has problems processing a ``/proc/<PID>" entry --
e.g., it can't convert the entry to a full and more meaningful
path name, or it can't access the /proc/<PID>/fd subdirectory
with opendir() -- it will report the /proc/<PID> path in the
NAME column.

10.8 Linux /proc/net/tcp* and /proc/net/udp* issues

10.8.1 Why use the Linux -X option?

If you're not interested in TCP/IP socket information for a
particular use of lsof, adding the -X option will make lsof run
more quickly, because -X inhibits the reading of the
/proc/net/tcp* and /proc/net/udp* files. For example, you may
only be interested in knowing what process has a particular
file open.

When the Linux system has a large number of
open TCP/IP socket
files, the time savings provided by -X can be significant.

10.8.2 Why does lsof say ``-i is useless when -X is specified"?

If -X is specified, lsof can't report much information on open
TCP/IP socket files. However, lsof's -i option requests that
information. Hence, the two options conflict and can't be used
together.

10.8.3 Why does lsof say ``can't identify protocol (-X specified)"?

If the Linux lsof -X option is specified and an open socket
file can't be identified without accessing the /proc/net/tcp*
and /proc/net/udp* files, lsof will report that it can't
identify the socket's protocol and that the failure may be
caused by the -X specification

11.0 NetBSD Problems

11.1 Why doesn't lsof report on open kernfs files?

Lsof doesn't report on open NetBSD kernfs files because the structures lsof needs aren't defined in the kernfs.h header file in /sys/misc/kernfs.

11.2 Why doesn't lsof report on open files on: file descriptor file systems; /proc
file systems; 9660 (CD-ROM) file systems;
MS-DOS (floppy disk) file systems; or kernel file systems?

Lsof is not able to report on open files on certain file system if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on certain file system files.

You can tell if an lsof executable above) lacks support for a file system if the following test of `lsof -v` produces nothing:

```
$ lsof -v 2>&1 | grep <support_enabled_definition>
```

The <support-enabled_definition> will be:

File System Type	Definition	Note
File descriptor	HASFDESCFS	
/proc	HASPROCFS	
9660	HAS9660FS	
MS-DOS	HASMSDOSFS	(lsof 4.61 and above)
Kernel	HASKERNFS	

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

11.3 Why does lsof produce confusing results for nullfs file systems?

Consider
this report from /sbin/mount:

```
/usr/home on /home type null (local)
```

(According to /sbin/mount /usr/home is the mounted-on device and /home is the mounted-on directory.)

When lsof is asked to report on open files on /home, it

will report them as files on /usr/home instead. That's an artifact of the NetBSD kernel's dynamic name lookup cache (DNLC) and the way the kernel handles nullfs mounted-on directories.

While lsof will report all open files on /home when given /home as a file system directory argument, even though reporting them as located on /usr/home, lsof will not find the same files when asked to report on all open files on /usr/home when given /usr/home as a file system device argument. That's because from the mount perspective /usr/home is equivalent to a device, but from the device perspective it is still a directory.

So, what this lsof command reports:

```
$ lsof /home
... NAME
... /usr/home/...
```

Won't be duplicated by this lsof command:

```
$ lsof /usr/home
```

Another way to look at this confusing /home and /usr/home example is to consider what stat(2) reports. For /home stat(2) reports a device doublet that matches what lsof finds in open file node structures, while the device doublet stat(2) reports for /usr/home won't match what lsof finds. Nor does the mode reported by stat(2) indicate a block devices, as is the expected case.

There is no simple answer to this confusion, nor is there even a simple explanation. Simply be aware that when supplying file system arguments to lsof on NetBSD, use the mounted-on directory name for a nullfs as the lsof argument, and don't be surprised when the NAME column reports the mounted-on device name.

11.4 NetBSD header file problems

11.4.1 Why can't the compiler find some NetBSD header files?

If the compiler's pre-processor complains it can't find some header files when it compiles lsof source files, /usr/include and /usr/src may not have all the header

files lsof needs.

As a work-around use the NETBSD_SYS environment variable
to specify to lsof the location of the additional header
files -- e.g.,

```
% setenv NETBSD_SYS /my_source
% ./Configure -n netbsd
```

or

```
$ NETBSD_SYS=/mys_source ./Configure -n netbsd
```

Caution: using this work-around may cause the lsof Configure
script to activate or omit different features, depending
on where it finds the header files that determine the state
of the features.

11.4.2 Why does NetBSD lsof produce incorrect output?

If the NetBSD system's kernel was built from header files that
don't match those in /usr/include -- e.g., //usr/src has the
ones from which the kernel was built -- lsof may build, but
won't produce correct output.

As a possible work-around, try directing the C compiler to
select header files from /usr/src before it selects them from
/usr/include. That can be done with the DEBUG make string --
e.g.,

```
$ make DEBUG="-I/usr/src -I/usr/include"
```

If
that work-around fails, try using the LSOF_INCLUDE and
NETBSD_SYS environment variables to swap /usr/include and
/usr/src when running the Configure script, then use the make
DEBUG string when running make -- e.g.,

```
$ LSOF_INCLUDE=/usr/src; export LSOF_INCLUDE
$ NETBSD_SYS=/usr/include; export NETBSD_SYS
$ ./Configure -n netbsd
$ make DEBUG="-I/usr/src -I/usr/include"
```

11.5 Why isn't lsof feature xxx enabled for NetBSD?

Lsof's Configure script enables NetBSD features by locating
and examining header files associated with the features,
and based on what it finds, setting compile-time definitions
in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find
appropriate values in header files, that may mean the header
file tree lsof is searching is incomplete or out of date.

Lsof normally looks for NetBSD header files in /usr/include.
It can also be directed to look in other directories --
e.g.,
/sys -- if told to do so with the contents of the
LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature,
check the NetBSD stanza in the Configure script. Then
check the locations it checks for the indicated header
files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and
and NETBSD_SYS.

12.0 NEXTSTEP and OPENSTEP Problems

12.1 Why can't lsof report on 3.1 lockf() or fcntl(F_SETLK) locks?

Lsof has code to test for locks defined with lockf() or
fcntl(F_SETLK) under NEXTSTEP 3.1, but that code has never
been tested. I couldn't test it, because my NEXTSTEP 3.1
lockf() and fcntl(F_SETLK) functions return "Invalid
argument" every way I have tried to invoke them.

If your NEXTSTEP 3.1 system does allow you to use lockf()
and fcntl(F_SETLK) and lsof doesn't report locks set with
them, then the code in .../dialects/next/dnode.c probably
isn't correct. Please contact me via e-mail at <abe@purdue.edu>
and
tell me how you got your lockf() and fcntl(F_SETLK) system
calls to work. Make sure "lsof" appears in the "Subject:" line
so my e-mail filter won't classify your letter as Spam.

12.2 Why doesn't lsof compile for NEXTSTEP with AFS?

I no longer have a NEXTSTEP test system that has AFS.
Changes to lsof since I once had a test system have caused
me to change the AFS code in NEXTSTEP without being able
to test the changes.

If you need AFS support for NEXTSTEP and can't get it to

compile, please contact me. Perhaps we can jointly fix
the problems.

13.0 OpenBSD Problems

13.1 Why doesn't lsof support kernfs on my OpenBSD system?

Lsof supports the kernel file system on OpenBSD versions
whose /sys/miscfs/kernfs/kernfs.h (or <miscfs/kernfs/kernfs.h>
header file correctly defines the kern_target structure.
The lsof Configure script's openbsd stanza checks for the
presence of the structure's kt_name element and activates
kernfs support for the CFLAGS -DHASKERNFS definition
only
when it finds kt_name.

The kernfs.h header file is scheduled to be updated in the
OpenBSD 2.1 release, according to Kenneth Stailey, who
authored its changes.

13.2 Will lsof work on OpenBSD on non-x86-based architectures?

I've not tested lsof on an OpenBSD system that uses a
non-x86-based architecture, but I've had one report that
lsof 4.33 compiles and works on OpenBSD for the pmax
architecture (decstation 3100).

13.3 <sys/pipe.h> problems

13.3.1 Why does the compiler claim nbpg isn't defined?

When compiling lsof on some (older) OpenBSD SPARC versions,
the compiler may complain:

```
In file included from ../dlsof.h:191,
     from ../lsof.h:166,
     from fino.c:52:
/usr/include/sys/pipe.h:83: `nbpg' undeclared here
(not in a function)
/usr/include/sys/pipe.h:83: size of array `ms' has
non-integer type
```

This happens because <sys/pipe.h> uses NBPG from
<machine/param.h> to size the `ms' array, and some OpenBSD
systems define
NBPG in terms of a kernel integer variable,
nbpg.

Lsof revisions 4.46 and above have a hack to dlsof.h, developed by Volker Borchert that avoids the compiler problem for SPARC OpenBSD 2.3. The hack might work for other OpenBSD SPARC versions, but hasn't been tested there.

If you want to enable the hack for your OpenBSD SPARC version, modify this code in .../dialects/n+obsd/dlsof.h:

```
# if    defined(OPENBSDV)
#  if   OPENBSDV==2030 && defined(__sparc__)
#   if  defined(nbpg)
#undef  nbpg
#   endif       /* defined(nbpg) */
#define nbpg    4096            /* WARNING!!!  ... */
#  endif       /* OPENBSDV==2030 && defined(__sparc__) */
#include <sys/pipe.h>
#endif  /* defined(OPENBSDV) */
```

You will probably want to change the second #if test to match your OpenBSD version. You may also want to change what value is assigned to nbpg. See the next section, "What value should I assign to nbpg?"

13.3.2 What value should I assign to nbpg?

If you need to enable the nbpg hack, described in "Why does the compiler claim nbpg isn't defined?", you may also need to assign a value other than 4096 to nbpg. 4096 works for the sun4c processor and should work for sun4m, but 8192 may be needed for sun4.

Check <machine/param.h> and other OpenBSD documentation to determine the correct nbpg assignment.

13.4 Why doesn't lsof report on open MS-DOS file system (floppy disk) files?

Lsof is not able to report on open MS-DOS file system files if /usr/src/sys/msdosfs didn't exist when the lsof Configure script ran and lsof was made. /usr/src/sys/msdosfs contains header files lsof needs for collecting data on MS-DOS file system files.

You can tell if an lsof executable (revisions 4.61 and above) lacks MS-DOS file system support if the following command reports nothing:

```
$ lsof -v 2>&1 | grep HASMSDOSFS
```

The work-around is to install /usr/src/sys, rerun the lsof Configure script, and remake lsof.

13.5 Why isn't lsof feature xxx enabled for OpenBSD?

Lsof's Configure script enables OpenBSD features by locating and examining header files associated with the features, and based on what if finds, setting compile-time definitions in Makefiles. (See 00PORTING for a list of the definitions.)

When Configure doesn't find header files or doesn't find appropriate values in header files, that may mean the header file tree lsof is searching is incomplete or out of date.

Lsof normally looks for OpenBSD header files in /usr/include and /sys. It can also be directed to look in other directories if told to do so with the contents of the LSOF_INCLUDE and NETBSD_SYS environment variables.

To determine what header file enables a missing feature, check the OpenBSD stanza in the Configure script. Then check the locations it checks for the indicated header files and contents.

See 00XCONFIG for more information on LSOF_INCLUDE and and NETBSD_SYS.

14.0 Output Problems

14.1 Why do the lsof column sizes change?

Lsof dynamically sizes its output columns each time it runs to make sure that each column takes the minimum space. Column parsing -- e.g., with awk -- is possible, because each column is guaranteed to be separated from the preceding one by at lease one space, and no column except the last (NAME) contains embedded spaces.

14.2 Why does the offset have ``0t' and ``0x" prefixes?

The offset value that appears in the SIZE/OFF column has ``0t' and ``0x" prefixes to distinguish it from size values

that may appear in the same column.

Normally if the offset value is less than 100,000,000 (8
digits), it appears in decimal with a ``0t' prefix; over
99,999,999, in hexadecimal with a ``0x" prefix.

A decimal offset is handy, for example, when tracking the
progress of an outbound ftp transfer. When lsof reports
on the ftp process, it will report the size of the file
being sent with its open descriptor; it will report the
progress of the transfer via the
offset of the outbound
open ftp data socket descriptor.

The ``-o [n]" option may be used to specify the maximum
number of decimal digits to be printed after ``0t" before
lsof switches to the hexadecimal digits after `0x". As
already noted, the default decimal digit count is 8.

14.3 What are the values printed in the FILE_FLAG column
and why is 0x<value> sometimes included?

The two comma separated lists, separated by a semicolon,
printed in the FILE-FLAG column (when the "+fg" option is
specified), are short-hand names or hexadecimal values for
the bits lsof finds in the f_flag or f_flags member of file
structures for files (the first list, the one before the
semicolon), and process open files flags found in various
kernel structures, often named "pofile" (the second list,
the one after the semicolon).

Lsof determines the short-hand names from symbols in the
<fcntl.h>, <linux/fs.h>, <sys/fcntl.h>, <sys/fcntlcom.h>,
o<sys/file.h>, and <sys/user.h> header files.

See
the discussion of FILE-FLAG in the OUTPUT section of
the lsof man page, and the FF_* and POF_* symbols in lsof.h
for a list of the names.

Bits with no names defined for them are represented by an
0x<value> member of the comma-separated list -- a hexadecimal
integer. When "+fG" is specified (instead of "+fg"), lsof
will list all flag values as two hexadecimal integers,
separated by a semicolon.

When "-FG" is specified to get the flags in an output field,
the format defaults to hexadecimal. You can get names

instead by following "-FG" with "+fg" -- e.g.,

```
$ lsof -FG +fg ...
```

However, when you precede "-FG" with "+fg" -- e.g.,

```
$ lsof +fg -FG
```

the format will be hexadecimal; order is important.

14.3.1 Why doesn't lsof display FILE_FLAG values for my dialect?

All versions of lsof except the /proc-based Linux lsof report FILE-FLAG values. Lsof can't obtain FILE-FLAG information from the Linux /proc interface.

14.4 Network Addresses

14.4.1 Why does lsof's -n option cause IPv4 addresses, mapped to IPv6, to be displayed in IPv6 notation?

When you use the -n option to tell lsof to display numeric network addresses, and an IPv4 address has been mapped to IPv6, lsof displays the address in IPv6 format and puts "ipv4" in the TYPE column. That combination indicates the IPv4 address has been mapped to IPv6.

For example, the IPv4 address 1.2.3.4, when mapped to an IPv6 address, will be displayed by lsof as:

```
[::ffff:1.2.3.4]
```

The enclosing brackets are lsof's signal that this is an IPv6 address. Inside the brackets is a standard IPv6 address, reported by inet_ntop(). The first two colons, signifying zeroes in the first 64 bits of the IPv6 address, and the hexadecimal ffff in the next 32 bits, indicate that the last 32 bits contains a mapped IPv4 address, which is then displayed in IPv4 dot notation.

14.5 Why does lsof output \x, ^x, or \xnn for characters sometimes?

Lsof displays only printable ASCII characters. Lsof considers a character printable if isprint(3) says it is. If isprint(3) says a character isn't printable,

the lsof may page explains:

"... Non-printable characters are printed in one of three forms: the C ``\[bfrnt]" form; the control character `^' form (e.g., ``^@"); or hexadecimal leading ``\x" form (e.g., ``\xab"). Space is non-printable in the COMMAND column (``\x20") and printable elsewhere."

14.5.1 Why is space considered a non-printable character in command names?

Space is considered an unprintable character in command names because it is sometimes possible to hide the full command name from scripts that parse ps(1) output by embedding a space in the name.

14.6 Why doesn't lsof print all the characters of a command name?

By default lsof prints the first nine characters of the names of commands associated with processes. If more characters are required, the "w" value of the "+c w" option may be used to specify
a larger width.

If "w" is zero ('0') lsof will print all characters of all command names up to the limit of the number of characters supplied by the particular UNIX dialect. When reporting command names, lsof replaces non-printable characters as discussed in the answer to " Why does lsof output \x, ^x, or \xnn for characters sometimes?"

See the answer to the "Why is space considered a non-printable character in command names?" question for an explanation of why spaces are replaced by the ``\x20" representation in command names.

The number of command name characters supplied to lsof by UNIX dialects in files and structures varies by dialect. For example, Linux 2.4.27 supplies lsof the first 15 characters of command names and Solaris 9 supplies 16. Thus, even if "w" is zero ('0'), lsof can't report more characters for command names on those two UNIX dialects than they provide lsof.

14.7 Why does lsof reject some -c command names, saying their lengths are "> what
system provides (nn)"?

The command name length that a specific system provides varies from dialect to dialect. As noted in the answer to the "Why doesn't lsof print all the characters of a command name?" question, Linux and Solaris provide a limited number of command name characters.

When more characters are specified in the parameter to the -c option, lsof considers it an error and issues a fatal error message -- e.g.,

lsof: "-c xxxxyyyy" length (8) > what system provides (7)

The only work-around is to specify no more characters to -c that the system provides to lsof.

14.8 Why does lsof sometimes print TYPE numbers instead of names?

When lsof can't convert a type number to a name for printing in the TYPE column, it will report the number as four octets.

14.9 Marker line format problems

14.9.1 Why won't lsof accept a marker line format?

Lsof's Configure script must find the localtime(3) and strftime(3) functions in the dialect's C library in order to enable
support for marker line formats.

Check the output of lsof's -v option for the presence of -DHAS_STRFTIME in the compiler flags. If it isn't there, Configure didn't find the necessary two C library functions.

If you think lsof should have found the functions, make a copy of the C test program in the Configure script that it uses to find the functions. Then use the copy, or a more informative modification of it, to learn why Configure can't find the functions. You can find that program by searching for strftime.

14.9.2 Why does lsof reject the NL (%n) marker line format?

When repeat mode and field output (with -F) have both been specified, lsof won't allow new line (NL) formats to be specified with ``%n''. That's because the marker line is always guaranteed to be a single line.

There is no work-around to this restriction.

14.10 How are protocol state name exclusion and inclusion used?

Protocol state name inclusion and exclusion with the ``-s p:s" option and
its arguments have some issues to consider. Note:
the ``-s p:s" option is only available when the help output,
obtained with -h or -?, shows it; it was a recent addition to
lsof and is supported only on dialects where it could be
tested.

First, there is the problem of determining what state names, if
any, the dialect produces. Try running this lsof command to
find them:

```
$ lsof -i
```

Knowing the state names of interest, the next problem is to
decide on the lsof options and their parameters that will
produce the desired output. Here some examples are probably
the most useful.

To list only TCP socket files in LISTEN and CLOSE_WAIT states,
use:

```
$ lsof -itcp -stcp:listen,close_wait
```
or
```
$ lsof -iTCP -sTCP:LISTEN,CLOSE_WAIT
```

Case isn't important to lsof in protocol and state names.

To exclude TCP socket files in CLOSE_WAIT state, use:

```
$ lsof -itcp -stcp:^close_wait
```

Note the `^' preceding close_wait; it selects exclusion. You
can mix included and
excluded names in a comma separated list,
but you may not include and exclude the same name for the same
protocol.

To list TCP files in LISTEN state and UDP files in Idle state,
use:

```
$ lsof -i -stcp:listen -sudp:idle
```

Note: if you don't accompany the ``-s p:s" list option and
argguments with the -i option, lsof will list all other regular

files, while applying the specified inclusion and exclusion
specifications to network files. Generally, then, you want to
use -i with -s.

14.10.1 Why doesn't my dialect support state name exclusion and inclusion?

When state name inclusion and exclusion was added, I had access
to test systems for AIX, Darwin, FreeBSD, Linux, PSTAT-based
HP-UX and Solaris.

Therefore, I was unable to add and test the support to any other
UNIX dialects.

If a dialect has the support, then the HASTCPUDPSTATE definition
in its machine.h header file will be active; if not, it will be
absent or commented out.

If your dialect doesn't have the support
and you want it added,
you will have to provide me Internet access to a test host, where
I can compile lsof and have the credentials to test the changes
the support requires. If that's possible for you, please contact
me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in
the "Subject:" line so my e-mail filter won't classify your letter
as Spam.

15.0 Pyramid Version Problems

15.0.5 Statement of deprecation

As of lsof revision 4.52 support for all Pyramid versions has
been dropped. Contact me via e-mail at <abe@purdue.edu> if you
are interested in obtaining the last lsof Pyramid distribution.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

16.0 SCO Problems

16.1 SCO OpenServer Problems

16.1.1 How can I avoid segmentation faults when compiling lsof?

If you have an older SCO OpenServer compiler, it may get
a segmentation fault when compiling some lsof modules.
That appears to happen because of

the -Ox optimization
action requested in the lsof Makefile.

Try changing -Ox to -O with this make invocation:

```
$ make DEBUG=-O
```

Bela Lubkin supplied this tip and Steve Williams verified it.

16.1.2 Where is libsocket.a?

If you compile lsof and the loader says it can't find the socket library, libsocket.a, called by the -lsocket option in the lsof compile flags, you probably are running an SCO OpenServer release earlier than 5.0 and don't have the TCP/IP Development System package installed.

You may have the necessary header files, because you have the TCP/IP run-time package installed, but if you don't have the TCP/IP Development System package installed, you won't have libsocket.a.

Your choices are to install the TCP/IP Development System package or upgrade to OpenServer Release 5.0. You will find libsocket.a in 5.0 -- you'll find all the libraries and header files there, in fact -- and you can use gcc to compile lsof if you don't want to install the 5.0 Development System
package.

16.1.3 Why do I get "warning C4200" messages when I compile lsof?

When you compile lsof under OSR 3.2v4.2 (and perhaps under earlier versions as well), you may get many compiler warning messages of the form:

```
node.c(183) : warning C4200: previous declarator is not
compatible with default argument promotion
```

In my opinion this is a bug in the OSR compiler. Because the compiler cannot handle full ANSI-C prototypes, it assumes default types for function parameters as it encounters untyped in a function prototype -- e.g., in this function declaration from node.c,

```
readrnode(ra, r)
KA_T ra;
```

```
 struct rnode *r;
   {
   ...
```

the compiler assigns default int types to the ra and r
arguments.

Then, when the compiler encounters the fully typed parameters
after the function skeleton and sees parameters with types
that don't match the assumptions it previously made, it
whines about its own assumptions.

You can ignore these messages.

16.2 SCO|Caldera UnixWare Problems

16.2.1 Why doesn't lsof compile on my UnixWare 7.1.1 or above system?

When you Configure lsof with the "uw" abbreviation and try
to compile it for UnixWare 7.1.1, you may get compiler
error messages like this:

```
   UX:acomp: ERROR: "dproc.c", line 98:
 undefined struct/union member: p_pgidp
```

This suggest that you probably have a non-stop cluster
UnixWare 7.1.1 system. Its <sys/proc.h> header file differs
from the one on the system where I did the lsof port to
UnixWare 7.1.1. I currently don't have access to a non-stop
cluster system to be able to develop changes to lsof that
would make it compile and work there.

If you have a non-stop cluster UnixWare 7.1.1 system, want lsof
for it, and can offer me a test account on the system, please
contact me via e-mail at <abe@purdue.edu>. Make sure "lsof"
appears in the "Subject:" line so my e-mail filter won't
classify your letter as Spam.

If you have a system with nsc_cfs and can
offer me a test
account on it, please contact me via e-mail at <abe@purdue.edu>.
Make sure "lsof" appears in the "Subject:" line so my e-mail
filter won't classify your letter as Spam.

16.2.2 Why does lsof complain about node_self() on my UnixWare 7.1.1 or above system?

If lsof exits immediately after issuing this message:

    can't identify process NSC node; node_self(): <message>

It means that lsof has been built to run on a NonStop Cluster (NSC) UnixWare 7.1.1 or higher system and can't get the number of the node on which it is running. Lsof uses the node number to determine the path to the kernel boot file.

You can tell if lsof has been built for NSC by looking for "-DHAS_UW_NSC" in lsof's "-v" option output.

If the system on which you're trying to run lsof isn't running an NSC kernel, you will need to build a non-NSC lsof.

16.2.3 Why does UnixWare 7.1.1 or above complain about -lcluster, node_self(), or libcluster.so?

When you build, compile, and load lsof for UnixWare 7.1.1 and above, ld may complain that it can't find the -lcluster library or that the node_self symbol is undefined. When you try to run an existing lsof binary it may complain that libcluster.so can't be found.

These messages mean the tests made by Configure on your system led it to believe your system is running a NonStop Cluster (NSC) kernel, or the lsof binary you're trying to use was built on a NonStop Cluster system. If an lsof binary was built for NSC, this shell command produces output:

    $ strings <lsof_binary> | grep HAS_UW_NSC

If that's not the case, and you can rebuild lsof, set the UW_HAS_NSC environment variable to "N" and do this:

```
$ Configure -n clean
$ UW_HAS_NSC=N
$ export UW_HAS_NSC
$ Configure -n uw
$ make
```

You can also edit Makefile and lib/Makefile. Remove -DHAS_UW_NSC from the CFGF strings. Remove -lcluster from

the CFGL strings. Then run make again.

If you have an existing NSC lsof binary and you
want one
for a non-NSC system, you will have to build lsof yourself
on the system where you want to use it. (That's always a
good idea anyway.)

16.2.4 Why does UnixWare 7.1.1 or above lsof complain it can't read the kernel name list?

If lsof complains:

```
can't read kernel name list from <path>
```

It means that lsof can't find the booted kernel image file
at <path>. On NonStop Cluster (NSC) UnixWare 7.1.1 or
higher systems lsof determines the booted file path by
examining this file:

```
/stand/`node_self`/boot
```

If examining that file doesn't lead to an NSC path, lsof
uses:

```
/stand/1/unix
```

On non-NSC systems lsof expects the booted kernel image to
be in /stand/unix.

If your booted kernel image is in a different place, use
lsof's "-k <path>" option to specify its path.

16.2.5 Why doesn't lsof report link count, node number, and size for some UnixWare 7.1.1 or above CFS files?

Lsof reports link count, node number, and size for open
CFS files as recorded
in their kernel node structure's
cached attributes. Sometimes not all attributes are cached
on the node where lsof runs, so lsof cannot report them.

16.2.6 Why doesn't lsof report open files on all UnixWare 7.1.1 NonStop Cluster (NSC) nodes?

Lsof can only report on files open on the node on which it
runs, because the information lsof reports comes from the

private kernel memory of the node. This may mean that asking lsof to find a specific open file, or use of a specific Internet address or port, may not report all open instances on nodes other than the one used to run lsof.

You can use the NSC onnode(1) command to run lsof on specific nodes, or the onall(1) command to run lsof on all nodes -- e.g.,

```
   $ onall lsof [options] 2>&1 | less
 or
   $ onnode node-number lsof [options] 2>&1 | less
```

Note that, when lsof is run all nodes, the path name component assembly results it reports in its NAME column may vary, because the dynamic name cache from which lsof gets
the components is private to the kernel of each node.

Also note the use of shell redirection in the examples to merge the standard error file information from onnode and onall with lsof's standard output file output. That will put the onnode and onall node announcements in proper sequence with lsof's output.

16.2.7 Why doesn't lsof report the UnixWare 7.1.1 NonStop Cluster (NSC) node a process is using?

To induce lsof to report the node on which a process runs would be a significant, non-standard modification to lsof. It has much wider implications than merely the printing of a number in an output column. I'm not currently (April 2001) prepared to undertake such a modification.

If you want node-specific NSC information about open files, run lsof under the control of onall(1) or onnode(1).

```
   $ onall lsof [options] 2>&1 | less
 or
   $ onnode node-number lsof [options] 2>&1 | less
```

16.2.8 Why does the compiler complain about missing UnixWare 2.1[.x] header
files?

SCO|Caldera didn't ship the following header files with UnixWare 2.1 through 2.1.3:

<fs/proc/prdata.h>
<fs/procfs/prdata.h>
<sys/fs/fifonode.h>
<sys/fs/namenode.h>

Lsof needs those header files for its compilation. Contact SCO|Caldera to get copies of those header files.

If you can't get the header files from SCO|Caldera, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

17.0 Sun Problems

17.0.5 Statement of deprecation

Lsof support for SunOS 4.1.x was last tested at revision 4.51. Contact me via e-mail at <abe@purdue.edu> if you're interested in obtaining it. Make sure "lsof" appears in the "Subject:" line so my e-mail filter won't classify your letter as Spam.

17.1 My Sun gcc-compiled lsof doesn't work -- why?

Gcc can be used to build lsof successfully. However, an improperly installed Sun gcc compiler will usually not produce
a working lsof.

If your Sun gcc-compiled lsof doesn't report anything, or reports ``can't read proc table,'' or gcc refuses to compile lsof without error, check that the gcc step that "fixes" Sun header files was run on the system where you're using gcc to compile lsof. As an alternative, if you have the SunPro C 5.0 compiler or later available, use it to compile lsof -- e.g., use the solariscc Configure abbreviations.

17.2 How can I make lsof compile with gcc under Solaris 2.[456], 2.5.1, 7, 8 or 9?

Presuming your gcc-specific header files are wrong for Solaris, edit the lsof Configure-generated Makefile and lib/Makefile and make this change:

```
 CFGF=   -Dsolaris=20400 ...
to
 CFGF=   -Dsolaris=20400 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20500 ...
```
to
```
 CFGF=   -Dsolaris=20500 -D__STDC__=0 -I/usr/include ...
```

or change:

```
 CFGF=   -Dsolaris=20501 ...
```
to
```
 CFGF=   -Dsolaris=20501 -D__STDC__=0 -I/usr/include ...
```

This is only a temporary
work-around. You really should
instruct gcc to to update your gcc-specific header files
or install a recent gcc (e.g., 3.2), which has no need for
private copies of Solaris include files.

17.3 Why does Solaris Sun C complain about system header files?

You're probably trying to use /usr/ucb/cc if you get compiler
complaints like:

```
   cc -O -Dsun -Dsolaris=20300 ...
   "/usr/include/sys/machsig.h", line 81: macro BUS_OBJERR
   redefines previous macro at "/usr/ucbinclude/sys/signal.h",
   line 444
```

Note the reference to "/usr/ucbinclude/sys/signal.h". It
reveals that the BSD Compatibility Package C compiler is
in use. Lsof requires the ANSI C version of the Solaris
C compiler, usually found in /usr/opt/bin/cc or
/opt/SUNWspro/bin/cc.

Try adding a CC string to the lsof Makefile that points to
the Sun ANSI C version of the Sun C compiler -- e.g.,

```
   CC= /usr/opt/bin/cc
```
or
```
   CC= /opt/SUNWspro/bin/cc.
```

17.4 Why doesn't lsof work under my Solaris 2.4 system?

If
lsof doesn't work under your Solaris 2.4 system -- e.g.,
it produces no output, little output, or the output is
missing command names or file descriptors -- you may have

a pair of conflicting Sun patches installed.

Solaris patch 101945-32 installs a kernel that was built
with a <sys/auxv.h> header file whose NUM_*_VECTORS
definitions don't match the ones in the <sys/auxv.h> updated
by Solaris patch 102303-02.

NUM_*_VECTORS in the kernel of patch 101945-32 are smaller
than the ones in the <sys/auxv.h> of patch 102303-02. The
consequence is that when lsof is compiled with the <sys/auxv.h>
whose NUM_*_VECTORS definitions are larger than the ones
used to compile the patched kernel, lsof's user structure
does not align with the one that the kernel employs.

If you have these two patches installed, contact Sun and
complain about the mis-match.

You may be able to work around the problem by editing
/usr/include/sys/auxv.h to have the following NUM_*_VECTORS
definitions:

```
#define NUM_GEN_VECTORS 4
 #define NUM_SUN_VECTORS 8
```

The Configure script issues a prominent WARNING that you should
try the work-around.

I thank Leif Hedstrom for identifying the offending patches.

17.5 Where are the Solaris header files?

If you try to compile lsof under Solaris and get a compiler
complaint that it can't find system header files, perhaps
you forgot to add the header file package, SUNWhea.

17.6 Where is the Solaris /usr/src/uts/<architecture>/sys/machparam.h?

When you try to Configure lsof for Solaris 2.[23456], 2.5.1,
and 7 -- e.g., on a `uname -m` == sun4m system -- Configure
complains:

```
 grep: /usr/src/uts/sun4m/sys/machparam.h:
No such file or directory
 grep: /usr/src/uts/sun4m/sys/machparam.h:
No such file or directory
```

And when you try to compile the configured lsof, cc or gcc

complains:

dproc.c:530: `KERNELBASE' undeclared (first use this function)

The explanation is that somehow your Solaris system doesn't have
the header files in /usr/src/uts it should have. Perhaps someone removed the directory to save space. Perhaps you're using a gcc installation, copied from another system. In any event, you will have to load the header files from the SUNWhea package of your Solaris distribution.

KERNELBASE is an important symbol to lsof -- it keeps lsof from sending an illegal kernel value to kvm_read() where a segmentation violation might result (a bug in the kvm library). Lsof can get illegal kernel values because it reads kernel values slowly with kvm_read() calls that the kernel is changing rapidly.

Lsof doesn't need KERNELBASE at Solaris 2.5 and above, because it has a KERNELBASE value whose address lsof can find with /dev/ksyms and whose value it can read with kvm_read(). Under Solaris 2.5 /usr/src/uts has moved to /usr/platform.

17.7 Why does Solaris lsof say ``can't read proc table''?

When lsof collects data on processes, using the kvm_*() functions to scan the
kernel's proc structure table, it
checks to make sure it has identified a reasonable number of them -- a minimum of three. When lsof can't identify three processes during a scan, it repeats the scan.

When five scans fail to yield three processes, lsof issues the fatal message:

lsof: can't read proc table

and exits.

Usually lsof fails to identify three processes during a scan because its idea of the form of the proc structure differs from that being used by the kernel. Since the proc structure is defined in <sys/proc.h> and other /usr/include header files, the root cause of a proc structure discrepancy usually can be found in the composition of /usr/include.

One common way that /usr/include header files can be
incorrect is that gcc was used to compile lsof, gcc used
its special (i.e., "fixed") header files instead of the
ones in /usr/include, and the special gcc header files
weren't updated when Solaris was. Answers to these questions:

   My Sun gcc-compiled
lsof doesn't work -- why?

   How can I make lsof compile with gcc under Solaris 2.[456],
   2.5.1, 7, 8 or 9?

   Why does Solaris Sun C complain about system header files?

discuss the gcc header file problem and offer suggestions
on how to fix it or work around it.

It may also be that you are trying to run a version of lsof
that was compiled on an older version of Solaris. For
example, an lsof executable, compiled for Solaris 2.4, will
produce the ``can't read proc table" message if you try
to run it under Solaris 2.5. If you have compiled lsof
under Solaris 2.5 and it still won't work, see if the header
files in /usr/include have been updated to 2.5, or still
represent a previous version of Solaris.

Another source of header file discrepancies to consider is
the Solaris patch level and whether a binary kernel patch
was not matched with a corresponding header file update.
See the "Why doesn't lsof work under my Solaris 2.4 system?"
question for an example
of one in Solaris 2.4 -- there may
be other such patch conflicts I don't know about.

17.8 Why does Solaris lsof complain about a bad cached clone device?

When lsof revisions below 4.04 have been run on a Solaris
system and have been allowed to create a device cache file,
the running of revisions 4.04 and above on the same systems
may produce this complaint:

   lsof: bad cached clone device: ...
   lsof: WARNING: created device cache file: ...

This is the result of a change in the device cache file
that took place at lsof revision 4.04. The change introduced
a node number into the clone device lines of the device
cache file and was done in such a way that lsof could detect

device cache files whose clone lines don't have node numbers
(lines created by previous lsof revisions) and recognize
the need to regenerate the device cache file.

17.9 Why doesn't Solaris make generate .o files?

Solaris /usr/ccs/bin/make won't generate .o files from .c
files if /usr/share/lib/make/make.rules
is missing. It
may be found in and installed from the SUNWsport package.

17.10 Why does lsof report some Solaris 2.3 and 2.4 lock types as `N'?

For Solaris 2.3 with patch P101318 installed at level 45
or above, and for all versions of Solaris 2.4, NFS locks
are represented by a NFS-specific kernel lock structure
that sometimes lacks a read or write lock type indicator.
When lsof encounters such a lock structure, it reports the
lock type as `N'.

17.11 Why does lsof Configure say "WARNING: no cc in ..."?

When lsof's Configure script is executed with the solariscc
abbreviation it tries to make sure it's using the Sun C
compiler and not the UCB substitute from /usr/ucb/cc.
Thus, it looks for cc in the "standard" Sun compiler
location, /opt/SUNWspro/bin.

If Configure can't find cc there, it issues the warning:

```
lsof: WARNING: no cc in /opt/SUNWspro/bin;
using cc without path.
```

and uses cc for the compiler name, letting the shell find
cc with
its PATH environment variable.

You can tell Configure where to find your cc with the
SOLARIS_CCDIR cross-configuration environment variable.
(See 00XCONFIG for more information on SOLARIS_CCDIR).
For example, use this Configure shell command:

```
SOLARIS_CCDIR=/usr/special/bin Configure -n solariscc
```

(SOLARIS_CCDIR should be the full path to the directory
containing your cc.)

17.12 Solaris 7, 8 and 9 Problems

17.12.1 Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?

Solaris 7, 8 and 9 kernels come in two flavors, 32 and 64 bit. 64 bit kernels run on machines that support the SPARC v9 instruction set architecture. Separate executables for some programs, -- e.g., ones using libkvm like lsof -- must be built for 32 and 64 bit kernels.

Previous Sun (e.g., SC4.0) and earlier gcc compilers will build lsof for 32 bit kernels, but they won't build it for 64 bit kernels. Compilers that will build lsof for 64 bit Solaris 7, 8 and 9 kernels are the Sun
WorkShop Compilers
C 5.0 and above, and recent gcc versions, e.g., 3.2.

When given the ``-xarch=v9" flag, the C 5.0 compiler and above, and associated loader and 64 bit libraries will build a 64 bit lsof executable; when given the "-m64" or "-mcpu=v9" (deprecated) flags, an appropriate gcc compiler will build a 64 bit lsof executable.

When the lsof Configure script detects a 64 bit kernel is in use (e.g., by executing `/bin/isainfo -kv`), and when it finds that the specified compiler is inappropriate, it complains with these messages:

For gcc:

```
   "!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
   "!                                          !"
   "! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT  !"
   "! THIS GCC DOESN'T SUPPORT THE BUILDING OF 64 BIT       !"
   "! SOLARIS EXECUTABLES.  LSOF WILL BE CONFIGURED FOR A   !"
   "! 32 BIT echo KERNEL.                                   !"
   "!
                !"
   "!!!WARNING!!!=========!!!WARNING!!!=========!!!WARNING!!!"
```

For Sun C:

```
  !!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!
  !                                           !
  ! LSOF NEEDS TO BE CONFIGURED FOR A 64 BIT KERNEL, BUT    |
  ! THE VERSION OF SUN C AVAILABLE DOESN'T SUPPORT THE      !
  ! -xarch=v9 FLAG.  LSOF WILL BE CONFIGURED FOR A 32 BIT   !
  ! KERNEL.                                                 !
```

! !
!!!WARNING!!!==========!!!WARNING!!!==========!!!WARNING!!!

17.12.2 Why does Solaris 7, 8 or 9 lsof say "FATAL: lsof was compiled for..."?

Solaris 7, 8 or 9 lsof may say:

lsof: FATAL: lsof was compiled for a xx bit kernel,
but this machine has booted a yy bit kernel.

Where: xx = 32 or 64
yy = 64 or 32

(xx and yy won't match.)

This message indicates that lsof was compiled for one size kernel and is being asked to
execute on a different size
one. That's not possible for programs like lsof that use libkvm.

Depending on the instruction sets for which you need Solaris 7, 8 or 9 lsof, you may need two or more versions of lsof, compiled for each kernel size, installed for use with /usr/lib/isaexec. See the "How do I install lsof for Solaris 7, 8 or 9?" section of this document for more information on that.

17.12.3 How do I build lsof for a 64 bit Solaris kernel under a 32 bit Solaris kernel?

If your Solaris system has an appropriate compiler (e.g., WorkShop Compilers C 5.0 and above, or a recent gcc like 3.2) and the 64 bit libraries have been installed, you can force lsof's Configure script to build a 64 bit version of lsof with:

$ SOLARIS_KERNBITS=64 Configure -n solariscc

The SOLARIS_KERNBITS environment variable is part of the lsof cross-configuration support, described in the 00XCONFIG file of the lsof distribution.

17.12.4 How do I install lsof for Solaris 7, 8 or 9?

If you are installing lsof where it will be used only under

the bit size kernel for which it was built, no special installation is required.

If, however, you are installing different versions of lsof for different bit sizes -- e.g., for use on a 64 bit NFS server and from its 32 bit clients -- you should read the man page for isaexec(3C) and install lsof according to its instructions.

The executable at the directory where lsof is to be found should be a hard link to /usr/lib/isaexec or a copy of it. In the directory there must be instruction architecture subdirectories -- e.g., .../sparc/ and .../sparcv9/. The lsof for 64 bit size kernels is installed in the .../sparcv9/ subdirectory; the one for 32 bit size kernels, in .../sparc/.

For example, if you're installing 32 and 64 bit lsof executables in /usr/local/etc, you would:

```
 # cd /usr/local/etc
 # ln /usr/lib/isaexec lsof
 # mkdir sparc sparcv9
 # install the 32 bit lsof as sparc/lsof
 # install the 64
bit lsof as sparcv9/lsof
 # chmod, chown, and chgrp sparc/lsof and
   sparcv9/lsof appropriately
```

Lsof permissions and ownerships are the same whether one or more lsof executables are being installed, with or without the /usr/lib/isaexec hard link.

17.12.5 Why does my Solaris 7, 8 or 9 system say it cannot execute lsof?

When you attempt to execute lsof, your Solaris 7, 8 or 9 shell may complain:

```
    ksh: ./lsof: cannot execute
```

If the lsof executable exists and has the proper execution permissions, this error may be the result of trying to execute an lsof, built for a 64 bit kernel, on a 32 bit kernel.

This will tell you about the lsof executable:

```
    $ file lsof
```

lsof: ELF 64-bit MSB executable SPARCV9 Version 1,
dynamically linked, not stripped

The "64-bit" notation indicates the binary was built for
a 64 bit kernel. To see the running kernel bit size, use
this command:

$ isainfo -kv
32-bit sparc kernel modules

The "32-bit" notation indicates
a 32 bit kernel has been
booted.

The only work-around is to obtain, or Configure and make,
an lsof for the appropriate kernel bit size. If you
Configure and make lsof on the kernel where you wish to
run it the proper compiler, the lsof Configure step will
generate Makefiles that can be used with make to build an
appropriate lsof executable.

To compile a 64 bit lsof, you must have an appropriate
compiler -- i.e., Sun WorkShop Compilers C 5.0 or higher
or a recent gcc like 3.2.

17.12.6 What gcc will produce 64 bit Solaris 7, 8 and 9 executables?
8 and 9 executables?

Properly built and installed recent gcc versions -- e.g.,
3.2 -- will build lsof for 64 bit Solaris kernels.

If you update your gcc version to 3.2 or later, make sure
the private gcc header files become current -- i.e., clear
out any private header files from a previous gcc or Solaris
installation before installing the new ones, or build to
a new --prefix root and replace the old root with it after
the
build and installation are complete.

17.12.7 Why does lsof on my Solaris 7, 8 or 9 system say, "can't
read namelist from /dev/ksyms?"

You're probably trying to use an lsof executable built for
an earlier Solaris release on a 64 bit Solaris 7, 8 or 9
kernel. The output from `lsof -v` will tell you the build
environment of your lsof executable. You should also have
gotten a warning message that lsof is compiled for a
different Solaris version than the one under which it is

running -- something like this:

```
lsof: WARNING: compiled for Solaris release X; this is Y
```

You need to build lsof on the system where you want to use it. For 64 bit Solaris 7, 8 and 9 you need a compiler that can generate 64 bit Solaris executables -- e.g., the Sun Workshop 5 C compiler or later, or a recent gcc version like 3.2. See the "Why does lsof say the compiler isn't adequate for Solaris 7, 8 or 9?" section and the ones following it for a discussion of building lsof for 64 bit Solaris
7, 8 or 9.

17.13 Solaris and COMMON

17.13.1 What does COMMON mean in the NAME column for a Solaris VCHR file?

When lsof puts COMMON or (COMMON) in the NAME column of a Solaris VCHR file, it means that the file is handled by the special file system functions of the kernel through a common vnode.

17.13.2 Why does a COMMON Solaris VCHR file sometimes seem to have an incorrect minor device number?

When lsof reports on an open file in a Solaris special file system that uses a COMMON vnode, and the file is a VCHR file, lsof tries to locate the associated device node by looking for matches on the major and minor device numbers first.

If no major and minor match results, lsof then looks for a match on pseudo and clone device files. (See /devices/pseudo.) Those device nodes are matched specially by either their major or minor device numbers, but not both. Hence, when lsof finds a match under those special conditions, it may report a value in its output DEVICE column that differs
from one of the major and minor numbers of the device node.

Here's an example from a sun4m Solaris 7 system:

```
$ ls -li /devices/pseudo/pm@0:pm
151261 crw-rw-rw-   1 root     sys      117,  0 ...
$ lsof /devices/pseudo/pm@0:pm
COMMAND ... DEVICE ...   NODE NAME
```

```
powerd       117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
```

Note that the DEVICE value for the file with (COMMON) in its name field has a different minor device number (1) from what ls reports (0), while the DEVICE value for the file without (COMMON) matches the ls output exactly. Both match on the major device number, 117. The minor device number mis-match is a result of the way the Solaris kernel handles special file system common vnodes, and it's the reason lsof puts (COMMON) after the name to signal that a mis-match is possible.

17.14 Why don't lsof and Solaris pfiles reports always match?

/usr/proc/bin/pfiles
for Solaris 2.6, 7, 8, and 9 also
reports information on open files for processes. Sometimes the information it reports differs from what lsof reports.

There are several reasons why this might be true. First, because pfiles is a Sun product, based on Sun kernel features, its developers have a better chance of knowing exactly how open file information is organized. I sometimes have to guess at how kernel file structure linkages are constructed by gleaning hints from header files.

Second, lsof is aimed at providing information, specifically device and node numbers, that can be used to identify named file system objects -- i.e., path names. Thus, lsof tries to make sure its device and node numbers match those reported by stat(2). Pfiles doesn't always report numbers that match stat(2) -- e.g., for files using clone and pseudo devices via common vnodes like the nlist() /dev/ksyms usage.

Here's the Solaris 7 COMMON VCHR example again with additional pfiles output:

```
$ ls -li /devices/pseudo/pm@0:pm
 151261 crw-rw-rw-   1 root     sys      117,  0 ...
 $ lsof /devices/pseudo/pm@0:pm
 vic1: 10 = lsof /dev/pm
 COMMAND ... DEVICE ...   NODE NAME
 powerd  ...  117,1 ... 151261 /devices/pseudo/pm@0:pm (COMMON)
 Xsun    ...  117,0 ... 151261 /devices/pseudo/pm@0:pm
 $ pfiles ...
 0: S_IFCHR ... dev:32,24 ino:61945 ... rdev:117,1
```

...
14: S_IFCHR ... dev:32,24 ino:151261 ... rdev:117,0

Note that the NODE number, reported by lsof, matches what ls(1) and stat(2) report, while the ino value pfiles reports doesn't. Lsof also indicates with the (COMMON) notation that the DEVICE number is a pseudo one, derived from the character device's value. The lsof DEVICE value matches the pfiles rdev value, correct behavior for a character device, but pfiles gives no sign that it's not possible to find that character device number in /devices with ls(1) or stat(2).

17.15 Why does lsof say, "kvm_open(namelist=default, core=default):
Permission denied?"

Lsof needs permission to read from the /dev/kmem and /dev/mem memory devices. Access to them is opened via a call to the kvm_open() library function and it reports the indicated message.

You must give lsof permission to read the memory devices. The super user can almost always do that, but other lsof users can do it if some group -- e.g., sys -- has permission to read the memory devices, and the lsof binary is installed with the group's ownership and with the setgid permission bit enabled.

17.16 Why is lsof slow on my busy Solaris UFS file system?

Lsof may be slow on a busy Solaris UFS file system when UFS logging has been enabled with the "logging" mount option. That option can significantly increase disk operations under certain conditions -- e.g., when a lot of files are accessed quickly.

When only the "logging" option is specified to mount, all file accesses (atime updates) are logged to the UFS logging queue.
Each atime update requires two writes to the disk to complete it.

If you want to do UFS logging -- and there are reliability advantages to it -- consider using the "logging,noatime" mount options instead. That will shift atime updates from the logging queue to fewer and independent asynchronous operations, consequently making the UFS logging queue a

smaller bottleneck.

Consult mount_ufs(1M) for more information on the logging and noatime options.

(My thanks to Casper Dik for this tip on improving the performance of UFS logging.)

17.17 Why is lsof so slow on my Solaris 8 or 9 system?

Solaris 8 has a post-release feature upgrade modifying kernel name cache (DNLC) handling that can slow lsof throughput dramatically. The feature, sometimes called negative DNLC caching, is standard in Solaris 9.

As best I can tell, when you install the Solaris 8 MU1 package, you get negative DNLC caching. If this pipe produces any output, your system has negative DNLC caching.

```
$ nm /dev/ksyms | grep negative_cache_vnode
```

The reason negative DNLC caching perturbs lsof is that a single vnode address (found in the negative_cache_vnode kernel variable) is used to mark entries in the DNLC that are not (the negative part) found on disk.

Since a single vnode address (the DNLC key lsof uses) can represent many (I've seen upwards of 30,000.) DNLC entries, their presence overloads lsof's internal DNLC hashing function. An overloaded hash function is a slow hash function, and lsof's slows to a crawl when it encounters thousands of keys that produce the same value when the lsof DNLC hash function is applied to them.

The solution is simple -- ignore negative DNLC cache keys. They don't represent path name components lsof can use. Lsof revisions 4.50 and above have an addition that ignores them and the performance of those lsof revisions improves significantly when presented with negative DNLC cache keys.

If you don't have an lsof revision at 4.51 or later, there's a work-around. Use lsof's ``-C'' option. It disables lsof's DNLC caching. Of course, that also inhibits the reporting of any path name components from the kernel DNLC. When ``-c'' is used, lsof will continue to report file system and character device paths.

17.18 Solaris and VxFS

17.18.1 Why doesn't lsof support VxFS 3.4 on Solaris 2.6, and above?

Lsof will not support VxFS version 3.4 on Solaris 2.6 and above unless some files from VxFS Update 2 have been installed. VxFS 3.4 FCS and VxFS 3.4 update 1 lack the header files lsof normally uses to obtain information from the VxFS 3.4 kernel node structure, vx_inode. VxFS 3.4 Update 2 provides a method whereby lsof can obtain the necessary vx_inode information from the vxfsu_get_ioffsets() function in Veritas utility libraries.

The utility libraries (32 bit and 64 bit versions) may be found in /opt/VRTSvxfs/lib. An ancillary header file may be found in /opt/VRTSvxfs/include/sys/fs/vx_libutil.h. Documentation of the vxfsu_get_ioffsets(3) function may be found in /opt/VRTS/man/man3/vxfsu_get_ioffsets.3.

Those files of VxFS 3.4 Update 2 may be downloaded from:

ftp://ftp.veritas.com/pub/support/vxfs_34.i64243.tar

The vxfs_34.i64243.tar archive will unpack into an i64243 directory containing these files:

```
$ ls i64243
README
libvxfsutil.sol26.sums
libvxfsutil.sol26.tar.Z
libvxfsutil.sol27.sums
libvxfsutil.sol27.tar.Z
libvxfsutil.sol28.sums
libvxfsutil.sol28.tar.Z
```

Read README. Select the *.tar.Z file appropriate for your Solaris version. Its contents will unpack into /opt/VRTS and /opt/VRTSvxfs, so you will need sufficient permission -- e.g., do it as root -- to unpack the uncompressed archive. Once you've done that, it's a good idea to compare the checksums of the archive you unpacked with the ones recorded in the appropriate *.sums file. Use `sum -r` to verify the checksums.

For example, if you want the Solaris 8

version, uncompress
and unpack libvxfsutil.sol28.tar.Z -- e.g.,

```
$ su
...
# cd i6423
# zcat libvxfsutil.sol28.tar.Z | tar xf -
```

That should create these new files and subdirectories with
the indicated checksums:

```
File or subdirectory   sum -r

/opt/VRTSvxfs/include/vxfsutil.h  03938
/opt/VRTSvxfs/lib/libvxfsutil.a  51794
/opt/VRTSvxfs/lib/sparcv9/
/opt/VRTSvxfs/lib/sparcv9/libvxfsutil.a 07420
/opt/VRTS/man/man3/
/opt/VRTS/man/man3/vxfsu_get_ioffsets.3 62480
```

Once these files are in place, run lsof's Configure script
for the solaris or solariscc abbreviation. Configure will
locate the appropriate VxFS 3.4 Update 2 files and set up
for the making of an lsof that will properly display open
VxFS 3.4 file information.

17.18.2 Why does lsof report "vx_inode: vxfsu_get_ioffsets error"
for open Solaris 2.6 and above VxFS 3.4 and above files?

Even when lsof supports VxFS 3.4 and above on Solaris 2.6 and
above, it may report "vx_inode:
vxfsu_get_ioffsets error" in
the NAME column for all VxFS files.

The usual cause is that lsof doesn't have permission to
read the file at the end of the /dev/vxportal symbolic
link. If, for example, lsof has been installed setgid(sys),
then the /dev/vxportal symbolic link destination should be
owned by the sys group and readable by it.

Update 2 for VxFS 3.4 sets the modes of the /dev/vxportal
symbolic link destination to 0640 and the group ownership
to sys. But I have had a report that the modes are wrong
in a VxFS 4.0 installation.

Another cause may be that the system has more than one version
of VxFS installed (Only one can be active.), and lsof's
Configure script did not choose the header files and libraries

for the active VxFS version. Configure opts for VxFS 4.0 and
above header files and libraries (in /opt/VRTS) in preference
to those for VxFS below 4.0 (in /opt/VRTSvxfs).

Look for the directories /opt/VRTS and /opt/VRTSvxfs. If you
have /opt/VRTS,
make sure its header and library symbolic links
point to those of the active VxFS version.

If you have both directories, look at the CFLAGS that Configure
constructed for making lsof and see which directory path
follows a -I option. If that doesn't match the directory path
of the active VxFS version, try pointing Configure at the
correct directory with the SOLARIS_VXFSINCL environment
variable -- e.g.,

    $ SOLARIS_VXFSINCL=/opt/.../include ./Configure -n solaris

17.18.3 Why does Solaris Configure claim there is no VxFS library?

The lsof Configure script, when configuring for Solaris, may
report:

    FATAL: no VxFS .../libvxfsutil.a

That fatal error message indicates lsof has found the VxFS
utility library's header files, but can't find the library
itself in the expected location adjacent to the header files.

One possible cause is an incorrect symbolic link from
/opt/VRTS/lib/sparcv9/libvxfsutil.a to the library's real
location. (Some VxFS distributions
declared the link
incorrectly.) Use `ls -lL` on that path to see if it exists.
If it doesn't exist, the link may be missing an additional
leading "../" component.

If the problem is a missing "../" from the library's link, you
can correct the link or check with Veritas/Symantec for the
patch that corrects it.

If the problem is not a missing "../", and you know the
libvxfsutil.a location, you can define its path in the
SOLARIS_VXFSLIB environment variable before running the lsof
Configure script. (See 00XCONFIG for information about using
the SOLARIS_VXFSLIB environment variable.)

If you have no libvxfsutil.a, you must obtain it from

Veritas/Symantec or find it in your VxFS installation package.

17.18.4 Why doesn't Solaris lsof report VxFS path name components?

Solaris lsof will report path name components for VxFS versions
that use the common Solaris Dynamic Name Lookup Cache (DNLC) or
on some file systems of VxFS versions that support the VxFS
Reverse Name Lookup
(RNL) facility.

VxFS versions 3.3 (approximately) and below use the common
Solaris DNLC. (I haven't been able to determine exactly when
VxFS stopped using the DNLC.) For versions above that boundary,
but below 4.0, lsof can't report path name components.

At VxFS 4.0 and above, lsof can be compiled to use the VxFS RNL
facility for reporting path names. If "-DHASVXFSRNL" appears
in the compiler flags section of lsof "-v" option output, then
the lsof Configure script detected the VxFS RNL facility and
lsof has been compiled to use it.

Lsof's use of the RNL facility can fail when the VxFS file
system disk layout version is below 6. In that case, lsof can
report no path name components. For more information, see the
vxfs_inotopath(3) manual page. any of the following commands
will show the disk layout version for a VxFS file system, when
supplied the block device or mount point on which the file
system is mounted.

```
   fstyp -v <block_device>
 or
   mkfs -m
<block_device>
 or
   vxupgrade <mount_point>
```

You must have permission to read the block device -- e.g., be
the root user.

You may also be able to upgrade an older disk layout to one
that will work with the RNL. See the vxupgrade(1M) man page
for more information on that.

When lsof can't report VxFS path name components, it reports
the file system mount point and the path name of device on
which it is mounted. The device path name is enclosed in
parentheses.

17.18.5 Why does Solaris 10 lsof report scrambled VxFS paths?

Solaris 10 lsof may report a bogus, scrambled path for an open VxFS file, when lsof obtains the path from a vnode's cached path. Veritas/Symantec reports that their Solaris 10 implementation has bugs in the way it handles the Solaris 10 vnode cached path and those bugs will be fixed in an upcoming patch some time after August 15, 2005.

When Solaris 10 lsof reports a path for an open VxFs file obtained via the VxFS Reverse Name Lookup facility, the path
will be correct.

Also see the answers to the questions "Why does Solaris 10 lsof sometimes report the wrong path name?" and "Why doesn't Solaris lsof report VxFS path name components?"

17.19 Large file problems

17.19.1 Why does lsof complain it can't stat(2) a Solaris 2.5.1 large file?

When given an argument that is the path to a Solaris 2.5.1 file, enable for large file operations with the O_LARGEFILE open(2) option, lsof complains that it can't stat(2) the file. That's because lsof isn't using a stat(2) call and associated structure enabled for large files.

This error has been fixed, starting at lsof revision 4.58 for Solaris 2.6 and above. That fix won't work on Solaris 2.5.1 and I no longer have access to a Solaris 2.5.1 test system to develop a separate fix.

The work-around is to avoid specifying a O_LARGEFILE path as an argument to lsof on Solaris 2.5.1. Instead use a combination of lsof and grep to achieve the same results, albeit more clumsily.

17.20
Why does lsof get a segmentation fault on 64 bit Solaris 8 using NIS+?

I have received a report from Gary Craig that lsof produces a segmentation fault on his 64 bit Solaris 8 system using NIS+. Via an independent test program we have exonerated lsof and tracked the fault to the NIS+ __nis_server_name() function in the C name server library, -lnsl.

Lsof causes the __nis_server_name() NIS+ function to be called by calling getservent() to read entries of the port number to service name map.

The only Sun bug ID that appears to describe the problem is 4304244, although its text is unclear enough to leave room for doubt.

Until Sun eliminates the __nis_server_name() segmentation fault cause, a work-around for lsof is to use its "-P" option, causing lsof to avoid port to service name lookups.

17.21 Will lsof crash the Solaris kernel?

I've received and investigated one report that it has when the Sun hardware (a QME interface) was faulty. Today (May 23,
2002) I've learned that Sun has reports of kernel crashes caused by adb, lsof, and mdb.

The Sun investigation pinpointed a problem in the /dev/kmem kernel driver and there is a Sun bug report, 4344513, about the problem. There is a fix in Solaris 9, and patches for Solaris 7 and 8 (SPARC and x86).

To see if your Solaris system is fixed, look for a /devices/pseudo/*allkmem node.

Extensive address filtering was added to lsof revision 4.50 to forestall what I then (July 2001) believed to be only the possibility that lsof might crash Solaris. However, the filtering isn't perfect, since a filtered address might become invalid after lsof has filtered it but before lsof has delivered it to /dev/kmem. That filtering work is described in .../dialects/sun/solaris_kaddr_filters, also available at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/solaris_kaddr_filters

The best and safest work-around is to upgrade to Solaris 9 or install an appropriate patch or its equivalent
from
this list:

Solaris Version	SPARC Patch	x86 Patch
=======	=====	=====

7 106541-20 106542-20
8 108528-14 108529-14

17.22 Why does lsof on Solaris 7, 8, or 9 report a kvm_open() failure?

When lsof is started on some Solaris 7, 8, and 9 systems it may report:

```
lsof: kvm_open(namelist=default, corefile=default): \
No such file or directory
```

Lsof revisions 4.65 and later will first report:

```
lsof: cannot stat /dev/allkmem
```

The second message, not delivered in lsof revisions below 4.65, explains the cause of the kvm_open() failure; it can't find /dev/allkmem.

/dev/allkmem is a device added to Solaris 7 and 8 in patches and in the Solaris 9 FCS. See the preceding "Will lsof crash the Solaris kernel?" section for more information on /dev/allkmem and the patches.

The kvm_open(3KVM) function in the KVM library of patched Solaris 7 and 8 systems and in Solaris 9 expects to find /dev/allkmem and exits on error when it does not.

If you have installed the patch that updated your KVM library to a version that expects /dev/allkmem to be present and it is not, you may need to reconfigure your system's devices with devfsadm(1M) or enter "boot -r" to the OpenBoot monitor's prompt (usually "ok").

17.23 Solaris and SAM-FS

17.23.1 Why does Solaris lsof report "(limited SAM-FS info)"?

Lsof 4.68 and above report "(limited SAM-FS info)" on Solaris in the NAME column after the path or file system name for all files it finds on SAM-FS file systems.

That's because no more information is known about the composition of the nodes that follow SAM-FS vnodes. If you can provide that information, please contact me via e-mail at <abe@purdue.edu>. Make sure "lsof" appears in the

"Subject:" line so my e-mail filter won't classify your letter as Spam.

17.23.2 Why can't lsof locate named SAM-GS files?

Solaris lsof 4.68 and above can't locate files on SAM-FS file systems when the files are named as lsof arguments because
lsof doesn't know how to locate open SAM-FS file device and node number information. (See also 'Why does Solaris lsof report "(limited SAM-FS info)?')

17.24 Lsof and Solaris 10 zones

17.24.1 How can I make lsof list the Solaris zone?

Use the lsof "-z [z]" option.

17.24.2 Why doesn't lsof work in a Solaris 10 zone?

When run from within a Solaris 10 zone, lsof will usually report:

```
lsof: can't stat(/devices): No such file or directory
```

That's because a Solaris zone usually has no /devices subdirectory, a restriction of the zone implementation intended to limit the ability of zone processes to control global system resources, including physical devices.

While a zone may have a /dev subdirectory, that subdirectory usually lacks the /dev/allkmem, /dev/mem and /dev/kmem devices lsof and the KVM library it uses require.

The work-around is to run lsof in the global zone. When it is run in a global zone lsof will be able to report on processes running
in any zone, including the global zone.

17.24.3 Why does lsof complain it can't stat() Solaris 10 zone file systems?

When run from the global zone on Solaris 10 lsof may complain:

```
lsof: WARNING: can't stat() 15 zone file systems;
 using dev= options
```

The warning message means lsof found the reported number of

file system entries in the mount table for which it didn't have permission to get stat(2) results, but which had "zone=" and "dev=" mount table options.

That is a normal restriction of Solaris 10 zones. Since the lsof warning message indicates it was able to find "dev=" options for the file systems, lsof will probably work correctly.

One work-around is to relax the restrictions on zone mount points, so that lsof can stat() them. While that may be possible by changing directory modes or group ownerships, it is probably not a good idea, because it weakens the restrictions zones are intended to provide.

Another work-around is to suppress the warning message with
lsof's "-w" option. The down side of that is that it causes the suppression of all warning messages, leading to the possibility that some non-stat() warning messages will be suppressed.

17.25 Solaris 10 problems

17.25.1 Why does Solaris 10 lsof sometimes report the wrong path name?

When a path name component is renamed -- e.g., with mv(1) -- Solaris 10 lsof may report the old component for an open file that used the component in its path before the rename. That's because Solaris 10 lsof reports the path name cached in the open file's vnode and the Solaris 10 kernel doesn't update the open vnode's cached path name when a component of it is changed.

When an open file is deleted -- e.g., with rm(1) -- the path name by which it was opened remains cached in the vnode. Lsof can be instructed to display that path name with the -X option. The path name might be incorrect because of the rename problem described above. See the answer to the 'What does "(deleted)" mean
in the NAME column of a Solaris 10 open file?' question for more information.

Lsof is sometimes able to detect that cached path name is incorrect. In that case lsof may report only the mounted-on directory and device of the file system or it may report that the path name is of questionable accuracy by appending a trailing "(?)" to it in the NAME column.

See the answer to the "Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?" and 'What does "(?)" mean in the NAME column of a Solaris 10 open file?' questions for more information.

17.25.2 Why does Solaris 10 lsof sometimes report only the mounted-on directory and device?

For some regular open files lsof may report only the mounted-on directory and device of the file system on which the file resides. That's because lsof was able to determine that the path name cached in the open file's vnode is incorrect.

Lsof detects the cached path name is incorrect by applying
stat(2)
to it, provided that no error was detected when stat(2) was applied to the file system mounted-on directory during lsof setup. If a mounted-on directory stat(2) error was detected during setup, lsof does no cached path name analysis and simply reports it.

When the application of stat(2) to the cached path name returns a no-entry reply (the ENOENT error number), lsof concludes the path no longer exists (i.e., has been unlinked) and reports the mounted-on directory and device of the file system. That behavior can be modified with the -X option in lsof revisions 4.77 and above. See the answer to the 'What does "(deleted)" mean in the NAME column of a Solaris 10 open file?' for more information.

When the application of stat(2) to the cached path name returns a permission error reply (the EACCES or EPERM error numbers), lsof reports the cached path name and adds a trailing "(?)" to indicate the reported path name is of questionable accuracy.
See the answer to the question
'What does "(?)" mean in the
NAME column of a Solaris 10 open file?' for more information.

If the application of stat(2) to the cached path name yields any other error reply, lsof reports the mounted-on directory and device of the file system.

When the application of stat(2) to the cached path name succeeds, lsof compares the reported device and node numbers to what it has obtained for the open file from kernel structures. If they match, lsof reports the cached path name. If they don't match, lsof instead reports the mounted-on directory and device of the file system.

A work-around that allows lsof to apply stat(2) successfully to
cached path names is to give lsof sufficient permission to do
it -- i.e., run lsof as the root user.

17.25.3 What does "(deleted)" mean in the NAME column of a Solaris 10
open file?

When the -X option is specified to Solaris 10 lsof, it will
report in its NAME column the path name cached for a deleted
file in its vnode. The path
name will be followed by
"(deleted)".

Note that the path name cached in a file's vnode is the path
name by which the file was opened. It is not updated by the
Solaris kernel when any path name component is changed. Hence,
it may not represent the final path name the open file had.

See the answer to the "Why does Solaris 10 lsof sometimes
report the wrong path name?" question for more information on
how changing a path name component affects the correctness of a
what lsof reports.

17.25.4 What does "(?)" mean in the NAME column of a Solaris 10 open
file?

When lsof encounters a path name cached in the open file's
vnode that stat(2) reports lsof lacks permission to access,
lsof adds "(?)" to the path name reported in the NAME column to
indicate the path name is of questionable accuracy.

See the answers to the "Why does Solaris 10 lsof sometimes
report the wrong path name?" and "Why does Solaris 10 lsof
sometimes report only the mounted-on directory and device?"
questions
for more information on why lsof may report a path
name of questionable accuracy.

A work-around that allows lsof to apply stat(2) successfully to
cached path names is to give lsof sufficient permission to do
it -- i.e., run lsof as the root user.

17.26 Solaris contract file problems

17.26.1 Why doesn't lsof report size, link count and node number for
Solaris 10 contract files?

Lsof doesn't report size, link count or node number for Solaris 10 contract files because I don't know how to obtain them from contract file kernel structures.

17.26.2 Why can't lsof locate a Solaris 10 contract file by path name?

Because lsof can't find the node number of Solaris contract files, it can't match the device and node numbers it gets from applying stat(2) to the contract file path name with what it finds in kernel data.

17.27 Solaris 10 and above ZFS probblems

17.27.1 Why does Configure warn that ZFS support is not enabled?

To provide ZFS support it is necessary that lsof have access to the definitions of ZFS structures used by the kernel. Those definitions are made available to lsof when it runs by the libctl library.

If lsof's Configure script finds that ZFS is indicated by the presence of the <sys/fs/zfs.h> header file, but the libctl library is not indicated via the <libctl.h> header file, the script concludes that ZFS support is not possible and issues the following warning:

```
WARNING: ZFS support not enabled; libctf.h missing.
```

Install libctf support to remedy this problem.

17.28 Problems with Solaris 9 and above

17.28.1 Why does the compiler complain about lgrp_root on Solaris 9 and above?

When compiling lsof 4.84 on later Solaris 9 and 10 systems, the compiler may report the following error:

```
/usr/include/sys/lgrp.h", line ...: identifier redeclared: lgrp_root
```

This error results from a conflict between usage of lgrp_root in both <sys/lgrp.h> and <sys/lgrp_user.h> when _KMEMUSER or _KERNEL is #define'd before <sys/lgrp.h> is #include'd. This problem is noted in Sunsolve bug ID 5064229.

The work-around is to use lsof revision 4.85 sources.

18.0 Lsof Features

18.1 Why doesn't lsof doesn't report on /proc entries on my system?

/proc file system support is generally available only for BSD, SYSV R4 dialects, and Tru64 UNIX (Digital UNIX, DEC OSF/1). It's also available for Linux, and Pyramid DC/OSx and Reliant UNIX.

Even on some SYSV R4 dialects I encountered many problems while trying to incorporate /proc file system support. The chief problem is that some vendors don't distribute the header file that describes the /proc file system node -- usually called prdata.h.

18.2 How do I disable the device cache file feature or alter it's behavior?

To disable the device cache file feature for a dialect, remove the HASDCACHE definition from the machine.h file of the dialect's machine.h header file. You can also use HASDCACHE to change the default prefix (``.lsof'') of the device cache
file.

Be sure you consider disabling the device cache file feature carefully. Having a device cache file significantly reduces lsof startup overhead by eliminating a full scan of /dev (or /devices) once the device cache file has been created. That full scan also overloads the kernel's name cache with the names of the /dev (or /devices) nodes, reducing the opportunity for lsof to find path name components of open files.

If you're worried about the presence of mode 0600 device cache files in the home directories of the real user IDs that execute lsof, consider these checks that lsof makes on the file before using it:

1. To read the device cache file, lsof must gain permission from access(2).

2. The device cache file's modes must be 0600 (0644 if lsof is reading a system-wide device cache file)

and its size non-zero.

3. There must be a correctly formatted section count line at the beginning of the file.

4. Each section must have a header line with a count
that properly numbers the lines in the section. Legal sections are device, clone, pseudo-device, and CRC.

5. The lines of a section must have the proper format.

6. All lines are included in a 16 bit CRC, and it is recorded in a non-checksummed section line at the end of the file.

7. The checksum computed when the file is read must match the checksum recorded when the file was written.

8. The checksum section line must be followed by end-of-information.

9. Lsof must be able to get matching results from stat(2) on a randomly chosen entry of the device section.

For more information on the device cache file, read the 00DCACHE file of the lsof distribution.

18.2.1 What's the risk with a perverted device cache file?

Even with the checks that lsof makes on the device cache file, it's conceivable that an intruder could modify it so it would pass lsof's tests.

The only serious consequence I know of this change is the
removal of a file whose major device number identifies a socket from some user ID's device cache file. When such a device has been removed from the device cache file, and when lsof doesn't detect the removal, lsof may not be able to identify socket files when executed by the affected user ID. Only certain dialects are at risk to this attack -- e.g., SCO OpenServer and Solaris 2.x, 7, 8, and 9.

If you're tracking a network intruder with lsof, that could

be important to you. If you suspect that someone has
corrupted the device cache file you're using, I recommend
you use lsof's -Di option to tell it to ignore it and use
the contents of /dev (or /devices) instead; or remove the
device cache file (usually .lsof_hostname, where hostname
is the first component of the host's name returned by
gethostname(2)) from the user ID's home directory and let
lsof create a new one for you.

18.2.2 How do I put the full host name in a personal device cache file path?

Lsof
constructs the personal device cache file path name
from a format specified in the HASPERSDC #define in the
dialect's machine.h header file. As distributed HASPERSDC
declares the path to be ``.lsof_" plus the first component
of the host name with the format ``.lsof_%L".

If you want to change the way lsof constructs the personal
device cache file path name, you can change the HASPERSDC
#define and recompile lsof. If, for example, you #define
HASPERSDC to be ``.lsof_%l" (note the lower case `l'),
Configure and remake lsof, then the personal device cache
file path will be ``.lsof_" plus the host name returned
by gethostname(2).

See the 00DCACHE file of the lsof distribution for more
information on the formation of the personal device cache
file path and the use of the HASPERSDC #define.

18.2.3 How do I put the personal device cache file in /tmp?

Change the HASPERSDC definition in your dialect's machine.h
header file.

When you redefine HASPERSDC, make sure
you put at least
one user identification conversion in it to keep separate
the device cache files for each user of lsof. Also give
some thought to including the ``%0" conversion to define
an alternate path for setuid-root and root processes.

Here's a definition that puts a personal device cache file
in /tmp with the name ``.lsof_login_hostname_pers".

```
#define HASPERSDC "/tmp/.lsof_%u_%l_pers"
```

Thus the /tmp personal device cache file path for login
"abe" on host "lsof.itap.purdue.edu" would be:

    /tmp/.lsof_abe_lsof.itap.purdue.edu_pers

You can add the User ID (UID) with the "%U" conversion and
the first host name component with the ``%L" conversion.

CAUTION: be careful using absolute paths like /tmp lest
lsof processes that are setuid-root or whose real UID is
root be used to exploit some security weakness via /tmp.
Elect instead to add an alternate path for those processes
with the ``%0" conversion. Here's an extension of the
previous HASPERSDC format
for /tmp that declares an alternate
path:

    #define HASPERSDC "/tmp/.lsof_%u_%l_pers%0%h/.lsof_%L"

When the lsof process is setuid-root or its real UID is
root, presuming root's home directory is `/' and the host's
name is ``lsof.itap.purdue.edu", the extended format yields:

    /.lsof_vic

18.3 Why doesn't lsof know about AFS files on my favorite dialect?

Lsof currently supports AFS for these dialects:

    AIX 4.1.4 (AFS 3.4a)
    Linux 1.2.13 (AFS 3.3)
    NEXTSTEP 3.2 (AFS 3.3)
    Solaris 2.[56] (AFS 3.4a)

It may recognize AFS files on other versions of these
dialects, but I have no way to test that. Lsof may report
correct information for AFS files on other dialects, but
I can't test that either.

AFS support must be custom crafted for each UNIX dialect
and then tested. If lsof supports your favorite dialect,
but doesn't recognize its AFS files, probably I don't have
access to a test system. If you want AFS support badly
for your dialect, consider
helping me do the development
and testing.

18.3.1 Why doesn't lsof report node numbers for all AFS volume files,

or how do I reveal dynamic module addresses to lsof?

When AFS is implemented via dynamic kernel modules -- e.g.,
in NEXTSTEP -- lsof can't obtain the addresses of AFS
variables in the kernel that it uses to identify AFS vnodes.
It can guess that a vnode is assigned to an AFS file and
it can obtain other information about AFS files, but it
has trouble computing AFS volume node numbers.

To determine node numbers for AFS volumes other than the
root volume, /afs, lsof needs access to a hashed volume
structure pointer table. When it can't find the address
of that table, because AFS support is implemented via
dynamic kernel modules, lsof will return blanks in the
INODE column for AFS volume files. Lsof can identify the
root volume's node number (0), and can compute the node
numbers for all other AFS files.

If you have a name list file that contains the addresses
of
the AFS dynamic modules -- e.g., you saved module symbols
when you created a loadable module kernel with modload(8)
by specifying -sym -- lsof may be able to find the kernel
addresses it needs in that file.

Lsof looks up AFS dynamic kernel addresses for these dialects
at these default paths:

NEXTSTEP 3.2 /usr/vice/etc/afs_loadable

A different path to a name list file with AFS dynamic kernel
addresses may be specified with the -A option, when the -A
option description appears in lsof's -h or -? (help) output.

If any addresses appear in the -A name list file that also
appear in the regular kernel name list file -- e.g., /vmunix
-- they must match, or lsof will silently ignore the -A
addresses on the presumption that they are out of date.

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/00FAQ
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* /lsof-4-92-1-zip/lsof-4.92.1/scripts/list_NULf.perl5
* /lsof-4-92-1-zip/lsof-4.92.1/scripts/list_fields.perl
* /lsof-4-92-1-zip/lsof-4.92.1/scripts/idrlogin.perl5
* /lsof-4-92-1-zip/lsof-4.92.1/scripts/shared.perl5
* /lsof-4-92-1-zip/lsof-4.92.1/scripts/list_fields.awk
* /lsof-4-92-1-zip/lsof-4.92.1/scripts/idrlogin.perl
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* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dfile.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/ddev.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dfile.c
* /lsof-4-92-1-zip/lsof-4.92.1/lsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/arg.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dstore.c

* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/dproto.h
*
/lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/node.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/ddev.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/proto.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/dsock.c
*
/lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/misc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/OLD/proc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/proc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dfile.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dnode.c

*
 /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/OLD/lsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dfile.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/ddev.c
* /lsof-4-92-1-zip/lsof-4.92.1/lsof_fields.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dstore.c
*
 /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/kmem/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/store.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/du/machine.h
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* GetOpt() -- Local get option
*
* Liberally adapted from the public domain AT&T getopt() source,
* distributed at the 1985 UNIFORM conference in Dallas
*
* The modifications allow `?' to be an option character and allow
* the caller to decide that an option that may be followed by a
* value doesn't have one -- e.g., has a default instead.
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Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/OLD/main.c.old
* /lsof-4-92-1-zip/lsof-4.92.1/main.c
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* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/freebsd/dnode1.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/dfile.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/hpux/kmem/dnode1.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+obsd/dnode1.c
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* $Id: pfsnode.h,v 1.1 1993/12/12 12:26:39 davidg Exp $
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* /lsof-4-92-1-zip/lsof-4.92.1/dialects/n+os/dnode1.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dnode1.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/aix/dnode1.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dnode1.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dnode2.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/uw/dfile.c
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From: Sandel, Ken L. <sandel@purdue.edu>
Sent: Tuesday, July 10, 2018 14:28
To: Victor Abell
Subject: RE: One more question regarding GitHub release

Vic,

For clarity I approved the release.

Ken

Ken L. Sandel
Senior Director, Sponsored Program Services
Senior Intellectual Property Officer
Purdue University
610 Purdue Mall
Hovde Hall Room 328
West Lafayette, IN 47907
sandel@purdue.edu
(765) 494-1063 (office)
(765) 426-2530 (cell)

From: Kasper, Joseph R. <JRKasper@prf.org>
Sent: Tuesday, July 10, 2018 11:23 AM
To: Victor Abell <vabell@lsof.comcastbiz.net>
Cc: Sandel, Ken L. <sandel@purdue.edu>
Subject: RE: One more question regarding GitHub release

Hi Vic,

My apologies for not following up. Mr. Sandel approves the release on GitHub under the copyright notice text currently in use.

Best,
Joe

Joseph R. Kasper, Ph.D.
Senior Business Development Manager & Director of Marketing
Office of Technology Commercialization

765-588-3486
jrkasper@prf.org
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From: Victor Abell <vabell@lsof.comcastbiz.net>
Sent: Monday, July 9, 2018 8:26 PM
To: Kasper, Joseph R. <JRKasper@prf.org>
Subject: RE: One more question regarding GitHub release

Joe,

Has there been any word from Ken about the release
of lsof to GitHub?

Vic

From: Kasper, Joseph R. [mailto:JRKasper@prf.org]
Sent: Thursday, June 28, 2018 1:15 PM
To: Victor Abell
Subject: RE: One more question
regarding GitHub release

Hi Vic,

One more request. Ken would like a copy of the email from Gerry. If for any reason you arent comfortable sending it to me, please contact Ken directly (765-494-1063, sandel@purdue.edu).

If this last piece of information is satisfactory to Ken, I expect to get his approval.

Thanks for your cooperation throughout this process.

Best,
Joe

From: Victor Abell <vabell@lsof.comcastbiz.net>
Sent: Thursday, June 28, 2018 7:43 AM
To: Kasper, Joseph R. <JRKasper@prf.org>
Subject: RE: One more question regarding GitHub release

Joe,

I sent e-mail to Gerry McCartney and in his answer he
says he has no objection.

Vic

From: Kasper, Joseph R. [mailto:JRKasper@prf.org]
Sent: Tuesday, June 26, 2018 4:03 PM
To: Victor Abell
Subject: RE: One more question regarding GitHub release

Hi Vic,

Thanks for the extra detail. I think it would put Kens mind at ease if you have Gerrys blessing. Let me know if youll reach out to him.

Best,
Joe

From: Victor Abell
<vabell@lsof.comcastbiz.net>
Sent: Tuesday, June 26, 2018 3:57 PM
To: Kasper, Joseph R. <JRKasper@prf.org>
Subject: RE: One more question regarding GitHub release

Joe,

I have had no communication with ITaP about the move to GitHub.
The extent of their involvement with lsof has been minimal the
Visiting Scholar appointment and the maintenance of a distribution
system.

I know Gerry McCartney well. Would it be helpful if I contacted
him about the GitHub move?

Vic

From: Kasper, Joseph R. [mailto:JRKasper@prf.org]
Sent: Tuesday, June 26, 2018 3:44 PM
To: Vic Abell; Victor Abell
Subject: One more question regarding GitHub release

Hi Vic,

Ken Sandel, Senior IP Officer, just got back to me. He wants to know if the leadership of ITaP supports the contribution to Github. Please let me know. If you have any communication to this effect that you can forward to me, it would be helpful.

Best,
Joe

Joseph R. Kasper, Ph.D.
Business Development Manager
Purdue Research Foundation

Office
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jrkasper@prf.org
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* /lsof-4-92-1-zip/lsof-4.92.1/dialects/darwin/libproc/dproto.h
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*/

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/osr/include/sys/cdefs.h
No license file was found, but licenses were detected in source scan.

Notes for the distribution of lsof version 3

****
| The latest release of lsof is always available via anonymous ftp |
| from vic.cc.purdue.edu. Look in pub/tools/unix/lsof. |
****

Contents

Dialects Supported
How Lsof Works
Lsof Output
Getting Started Quickly
Limiting, Filtering, and Selecting Lsof Output
Parsing Lsof Output with Another Program
Repeat Mode
Distribution Restrictions
Cautions
Distribution Contents
Warranty
Bug Reports
What's new in Version 3
Version 3 Release Notes
3.0, May 24, 1994
3.01, May 27, 1994
3.02, June 2, 1994
3.03, July 8, 1994
3.04, July 15, 1994
3.05, July 26, 1994
3.06, September 2, 1994
3.07, September 8, 1994
3.08, September 23, 1994
3.09, October 18, 1994
3.10,
October 21, 1994
3.11, October 28, 1994
3.12, October 29, 1994
3.13, November 11, 1994
3.14, November 16, 1994
3.15, November 25, 1994
3.16, December 2, 1994
3.17, January 25, 1994
3.18, January 31, 1995
3.19, February 10, 1995

3.20, February 23, 1995
3.21, March 3, 1995
3.22, March 9, 1995
3.23, March 24, 1995
3.24, March 31, 1995
3.25, April 5, 1995
3.26, April 20, 1995
3.27, May 2, 1995
3.28, May 26, 1995
3.29, June 2, 1995
3.30, June 8, 1995
3.31, June 16, 1995
3.32, June 23, 1995
3.33, June 28, 1995
3.34, June 30, 1995
3.35, July 9, 1995
3.36, July 20, 1995
3.37, July 27, 1995
3.38, August 3, 1995
3.39, August 10, 1995
3.40, August 25, 1995
3.41, September 5, 1995
3.42, September 7, 1995
3.43, September 12, 1995
3.44, September 19, 1995
3.45, September 20, 1995
3.46, October 5, 1995
3.47, October 16, 1995
3.48, October 20, 1995
3.49, October 25, 1995
3.50, October 31, 1995
3.51, November 8,
1995
3.52, November 27, 1995
3.53, December 8, 1995
3.54, December 15, 1995
3.55, December 21, 1995
3.56, January 2, 1996
3.57, January 12, 1996
3.58, February 7, 1996
3.59, February 21, 1996
3.60, February 27, 1996
3.61, March 9, 1996
3.62, March 26, 1996
3.63, April 11, 1996
3.64, April 26, 1996
3.65, May 20, 1996
3.66, June 19, 1996

3.67, July 1, 1996
3.68, July 17, 1996
3.69, July 30, 1996
3.70, August 9, 1996
3.71, August 15, 1996
3.72, August 28, 1996
3.73, September 5, 1996
3.74, September 6, 1996
3.75, September 9, 1996
3.76, September 21, 1996
3.77, October 2, 1996
3.78, October 14, 1996
3.79, October 29, 1996
3.80, November 8, 1996
3.81, November 14, 1996
3.82, December 11, 1996
3.83, December 30, 1996
3.84, January 13, 1997
3.85, January 17, 1997
3.86, January 30, 1997
3.87, February 11, 1997
3.88, February 17, 1997

Dialects Supported
==========

Lsof (for LiSt Open Files) lists files opened
by processes on
selected Unix systems. It's a major revision of lsof version 2,
and has been tested on:

AIX 3.2.5, 4.1[.[1234]], the IBM RISC/System 6000
and 4.2
BSDI BSD/OS 2.0, 2.0.1, Intel-based systems
and 2.1
DC/OSx 1.1 Pyramid systems
EP/IX 2.1.1 the CDC 4680
FreeBSD 1.1.5.1, 2.0, Intel-based systems
2.0.5, 2.1, 2.1.5,
2.2, and 3.0
HP-UX 8.x, 9.x, 10.01, HP systems (some combinations)
10.10, and 10.20
IRIX 5.2, 5.3, 6.0, 6.0.1, SGI systems
and 6.[1234]
Linux through 2.0 Intel-based systems
NetBSD 1.0, 1.1, and 1.2 Intel and SPARC-based systems
NEXTSTEP 2.1 and 3.[0123] all NEXTSTEP architectures

OpenBSD 1.2 and 2.0 Intel-based systems
OSF/1 2.0, 3.0, 3.2, and the DEC Alpha
4.0-BETA
Reliant UNIX 5.43 Pyramid systems
RISC/os 4.52 MIPS R2000-based systems
SCO OpenServer 1.1, 3.0, Intel-based systems
and 5.[024]
SCO UnixWare 2.1 and 2.1.1 Intel-based systems
Sequent PTX 2.1.[1569], Sequent systems
4.0.[23],
4.1.[024],
4.2[.1], and 4.3
Solaris 2.[123456], 2.5.1, Sun 4 and i86pc systems
and 2.6-Beta
SunOS 4.1.[1234] Sun 3 and 4
Ultrix 4.2, 4.3, 4.4, DEC RISC and VAX
and 4.5

(The pub/tools/unix/lsof/contrib directory on vic.cc.purdue.edu
contains information on other ports.)

If your favorite Unix dialect is not in the list, or if your version
of it is more recent than the ones listed, please contact me at
<abe@vic.cc.purdue.edu>.

How Lsof Works
==========

Using available kernel data access methods -- getproc(), getuser(),
kvm_*(), nlist(), pstat(), read(), readx(), /proc -- lsof reads
process table entries, user areas and file pointers to reach the
underlying structures that describe files opened by processes.

Lsof interprets most file node structures -- advfsnodes, autonodes,
cnodes, cdrnodes, devnodes, fifonodes, gnodes, hsnodes, inodes,
mfsnodes, pcnodes, procnodes, rnodes, snodes, specnodes, s5inodes,
tmpnodes. It understands NFS connections. It
recognizes FIFOs,
multiplexed files, Unix and Internet sockets. It knows about
streams. It understands /proc file systems for some dialects. On
many dialects it recognizes execution text and library references.
It knows about AFS on some Unix dialects.

Lsof Output
==========

The lsof output describes:

* the identification number of the process (PID) that has opened
  the file;

* the process group identification number (PGRP) of the process
  (optional);

* the process identification number of the parent process (PPID)
  (optional);

* the command the process is executing;

* the owner of the process;

* for all files in use by the process, including the executing
  text file and the shared libraries it is using:

  * the file descriptor number of the file, if applicable;

  * the file's access mode;

  * the file's lock status;

  * the file's device numbers;

  * the file's inode number;

  * the file's size or
offset;

  * the name of the file system containing the file;

  * any available components of the file's path name;

  * the names of the file's stream components;

  * the file's local and remote network addresses;

  * other file or dialect-specific values.

Getting Started Quickly
==========

If you want to get started using lsof quickly, or see some examples
of how lsof can be used, consult the 00QUICKSTART file of the lsof
distribution.

The 00QUICKSTART file won't help you build or install lsof, but it
will cut through the density of the lsof man page, giving you more
readily an idea of what you can do with lsof.

For information on building and installing lsof, consult the 00README
file of the lsof distribution.

Limiting, Filtering, and Selecting Lsof Output
==

Lsof accepts options to limit, filter, and select its output.
These are the possible criteria:

  * Process ID (PID) number -- to list the
open files for a given
    process;

  * Process Group ID (PGRP) -- to list the open files for all
    the processes of a given process group;

  * User ID number or login name -- to list the open files for
    all the processes of a given user;

  * Internet address -- to list the open files using a given
    Internet address (host name), protocol, or port (number or
    name); or to list all open Internet files;

  * command name;

  * file descriptor name or number;

  * list all open NFS files;

  * list all open Unix domain socket files;

  * list all uses of a specific file;

  * list all open files on a file system.

Selection options are normally ORed -- i.e., an open file meeting
any of the criteria is listed. The selection options may be ANDed
so that an open file will be listed only if it meets all the
criteria.

In the absence of any selection criteria, lsof lists files open to
all processes.

Parsing Lsof Output with Another Program
==

The
 lsof -F option directs it to produce "field" output that can
easily be parsed by another program. The lsof distribution contains
sample awk, perl 4, and perl 5 scripts in its scripts subdirectory
that show how to post-process field output.

Repeat Mode
===========

Lsof can be directed to produce output, delay for a specified time,
then repeat the output, cycling until stopped by an interrupt or
quit signal. This mode is useful for monitoring the status of some
file operation -- e.g., an ftp transfer or a tape backup operation.

Repeat mode is more efficient when combined with lsof's selection
options, since they limit lsof overhead.

It's possible to use lsof's field output options to supply repeat
mode output to another process for its manipulation. The scripts
subdirectory of the lsof distribution has sample Perl scripts
showing how to consume lsof repeat mode output from a pipe.

Distribution Restrictions
=========================

Lsof may
 be used and distributed freely, subject to these limitations:

1. Neither the author nor Purdue University is responsible for
  any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either
  by explicit claim or by omission. Credit to the author and
  Purdue University must appear in documentation and sources.

3. Altered versions must be plainly marked as such, and must not
  be misrepresented as being the original software.

4. This notice may not be removed from or altered in the lsof source
  files.

Cautions
========

Lsof is a tool that is closely tied to the Unix operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER.

On some Unix dialects, notably SunOS and Solaris, lsof versions
may be even more restricted by architecture type. An lsof
 binary,
compiled for SunOS 4.1.3 on a sun4c machine, for example, won't
work on a sun4m machine. Although I have no evidence that they
exist, the potential for similar restrictions exists in Solaris
versions of lsof.

AN LSOF BINARY, COMPILED FOR ONE SOLARIS ARCHITECTURE, ISN'T
GUARANTEED TO WORK ON A DIFFERENT SOLARIS ARCHITECTURE.

Distribution Contents
=====================

The lsof distribution is checked for completeness when it is
constructed and by the Inventory script when you run the Configure
script. (See The Inventory Script section of the 00README file of
this distribution.)

If you're worried you don't have everything, run the Inventory
script. Here's aan approximate picture of what you should have:

lsof_<version>:

```
 00CREDITS    00PORTING     Customize  lsof_fields.h  proc.c
 00DCACHE     00QUICKSTART  Inventory  main.c         proto.h
 00DIST       00README      arg.c      misc.c         scripts/
 00FAQ        AFSConfig     dialects/  node.c         store.c
  00MANIFEST  Configure     lsof.h     print.c        version
```

lsof_<version>/dialects:

```
 aix/       epix/      linux/     osf/       riscos/  sun/
 bsdi/      freebsd/   netbsd/    ptx/       sco/     ultrix/
 common/    hpux/      next/      pyramid/   sgi/     unixware/
```

lsof_<version>/dialects/common:

```
00Manifest  dvch.frag   lkud.frag   prtf.frag   rnam.frag
ckfa.frag   fchi.frag   pcdn.frag   rdev.frag   rnch.frag
cvfs.frag   isfn.frag   prfp.frag   rmnt.frag   rvfs.frag
```

Specific dialects sub-directories may differ slightly, depending
on the needs of the dialect, but they should all contain:

lsof_<version>/dialects/next:

```
Makefile  ddev.c   dlsof.h  dnode.c  dproto.h  dstore.c
Mksrc*    dfile.c  dmnt.c   dproc.c  dsock.c   machine.h
```

lsof_<version>/scripts:

```
00MANIFEST         count_pf.perl*      list_fields.awk
00README           count_pf.perl5*     list_fields.perl*
big_brother.perl5  list_NULf.perl5*    watch_a_file.perl*
```

Warranty
========

Lsof
is provided as-is without any warranty of any kind, either
expressed or implied, including, but not limited to, the implied
warranties of merchantability and fitness for a particular purpose.
The entire risk as to the quality and performance of lsof is with
you. Should lsof prove defective, you assume the cost of all
necessary servicing, repair, or correction.

Bug Reports
===========

Now that the obligatory disclaimer is out of the way, let me hasten
to add that I accept lsof bug reports and try hard to respond to
them. I will also consider and discuss requests for new features,
ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND A BUG REPORT ABOUT LSOF TO THE UNIX DIALECT
VENDOR.

At worst such a bug report will confuse the vendor; at best, the
vendor will forward the bug report to me.

Please send all bug reports, requests, etc. to me via email at
<abe@purdue.edu>.

What's new in Version 3
=======================

I had three goals in mind for version 3:

1. Make it faster.

Lsof 3 defers as many lookup operations -- /dev scan, mount table scan, /etc/services scan -- until they're needed.

I used prof on lsof and used its information to reduce lsof's overhead.

2. Make it easier to maintain and port to other systems, and eliminate complicated nestings of #if/#else/#endif pre-processor statements.

3. Add a few features:

o ANDing of options;

o Sorting of output by Process ID;

o Searching for Unix domain sockets by name -- to a limited extent.

o Process group ID support. (This was a late addition.)

As a result of goal 2, the organization of lsof version 3 differs greatly from version 2. The main directory contains totally common functions, a dialect subdirectory contains subdirectories of code specific to each Unix dialect that is supported. There is also a dialects/common subdirectory that contains code fragments that are used by more than one, but not all dialects.

A top-level Configure script constructs
the complete set of sources
for a given dialect and the Makefile at the top-level. Configure is self-documenting. When it is finished, Configure calls a second script, Customize, that assists with the modification of a few important compile-time options.

Version 3 Release Notes
==========

3.0 May 24, 1994
This is the first official release of lsof 3.

3.01 May 27, 1994
Corrected the #ifdef condition for HASPWSTAYOPEN
under Sequent Dynix 3.0.12.

Fixed bug that prevented the display of current
working and root directory path names under SunOS
4.1.x, even when the user area contained pointers
to them.

Changed the strategy for allocating space to the
local proc table in EP/IX, NEXTSTEP, Solaris, and
SunOS.

Closed the distance between reading the Solaris
proc structure and its companion pid structure in
an effort to avoid using a stale pid structure
pointer. A stale pid structure pointer sometimes
causes a segmentation violation in
kvm_read().

Added code to the SunOS kread() function to filter
out non-kernel addresses that might lead kvm_read()
to a segmentation violation. The Configure script
was updated to create a header file, kernelbase.h,
with the necessary kernel memory boundary value;
and to remove the header file when the -clean option
is specified. The Configure script now passes the
target name to the Mksrc shell script. It's used
by sun/Mksrc to determine the source for kernelbase.h.

3.02 June 2, 1994
Added #if's to of kernelbase.h for Solaris and
SunOS. This eliminates a redeclaration complaint
from old versions of SunOS.

Added code to process_file() in all dialects to
display "no more information" when f_count in the
file structure is zero.

3.03 July 8, 1994
Added support for displaying process group IDs.
This includes two new options: -j to select PGRP

display; and -g<list> to specify a list of PGRPs
whose files are to be displayed. (-j was chosen
to
match a similar option in some ps(1)'s.)

Philippe-Andre Prindeville <philipp@res.enst.fr>
suggested this addition.

3.04 July 15, 1994
Corrected handling of port name component of -i
option on systems where htons() is required.

Corrected casting of UID arguments -- needed when
UID is a short and the compiler wants the minimum
argument size to be larger.

3.05 July 26, 1994
Added printing of DECnet socket information for
the Ultrix 4.2 and 4.3 dialects. John Beacom
<beacom@wisnud.physics.wisc.edu> kindly provided
the test system. A new Configure abbreviation,
ultrix42dn, must be used to activate the DECnet
support.

3.06 September 2, 1994
The major news in this revision are the V/88 R32V3
and R40V4.2 ports for Motorola M88K systems. Chance
Neale <cneale@panix.com> kindly provided test systems
and Mike Feldman <feldman@charm.urbana.mcd.mot.com>
provided technical assistance.

Version 3.06 contains other, minor modifications:

* The Configure
script has been isolated from the
environment, thanks to a report of a CC=xlc
problem from Johnny Tolliver <jxt@ca04.cad.ornl.gov>.
Johnny also suggested a better form for the install
commands in the Makefile's install rule. This
change affected all the dialect Mksrc scripts.

A new HP-UX abbreviation (hpuxx25) was added
for systems that have the /etc/conf/x25 include
files. The old HP-UX abbreviation (hpux) no
longer references /etc/conf or defines HPUX_CCITT.

* The command "lsof `tty`" now works most places (maybe
not always for SGI IRIX, but I tried) thanks to a bug

report from Casper Dik <casper@fwi.uva.nl>.

* A mode has been added to disable forking when debugging. The V/88 R40V4.2 debugger needed that.

* Printing of stream NAMEs was standardized (IRIX was different) and an attempt was made to avoid stream NAMEs like /dev/ttyx4->/dev/ttyx4.

* A new documentation file, 00FAQ, accompanies the distribution. It contains frequently asked questions about lsof, and the best answers I can manage to give.

* I have a new HP-UX test system, courtesy of Dave Curry <davy@ecn.purdue.edu> and George Goble <ghg@ecn.purdue.edu> of Purdue's Engineering Computer Network. I want to thank J. Nelson Howell <nelson@zeus.mgmt.purdue.edu> of Purdue's School of Management for his prior support of lsof development under HP-UX.

3.07 September 8, 1994

This revision contains a small security enhancement. Tim Ramsey <tar@ksu.ksu.edu> pointed out that lsof's setgid or setuid power might allow it's user to read an alternate kernel name list or memory file via the -c and -k options that the real UID might not have authority to read. In revision 3.07 lsof uses access(2) to check the real UID's authority to read files named with -c and -k.

3.08 September 23, 1994

This revision contains support for Novell's UnixWare, versions 1.1, 1.1.1, and 1.1.2. Peter Lord <plord@novell.co.uk> made this possible by providing a copy of UnixWare and supplying technical advice. Binaries and sources for this version will be available from Novell sources. See the Novell UnixWare section of the distribution's 00README file for details.

This version adds /proc file system support to the dialects derived from SYSV R4 (except EP/IX 2.1.1): FreeBSD, IRIX 5.2, Solaris, UnixWare, and V/88 R40V4.2.

This version compiles under IRIX 4.0.5 again,
correcting a problem introduced at version 3.06 in
the "lsof `tty`" fix.

HP-UX now skips file systems whose mount type is
"ignore". The presence of the -c option is now
controlled by the HASCOPT definition in machine.h.
The HASSWAPPORT option is now documented and
implemented correctly. Hans Petter Christiansen
<hpchr@dxcern.cern.ch> suggested these changes.

3.09 October 18, 1994
This revision recognizes the DEC Alpha OSF/1 V3.0,
IBM AIX 4.1, and
Solaris 2.4 dialects. It has
support for the SunOS 4.1.3 PC file system and two
bug fixes: an IRIX, V/88, and Solaris file argument
processing bug; and a V/88 include error.

Alex Kreis <akreis@us.oracle.com> made the initial
request for DEC OSF/1 V3.0 support and provided
help with testing. Ron Young <ron@screamer.nevada.edu>
graciously provided a test host. James Woodward
<woodward@zk3.dec.com> provided invaluable clues
to V3.0 kernel organization. Others who read the
alpha-osf-managers mailing list made generous offers
of test facilities, and I thank them, too. The
decosf3 abbreviation was added to the Configure
script, and the script was modified to request the
name of the system configuration subdirectory of
/sys where the configuration-specific header files
reside for the decosf1, decosf2, and decosf3
configuration abbreviations.

Mark Peek <mark_peek@taligent.com> provided and
tested the AIX 4.1 changes.

Casper Dik <casper@fwi.uva.nl>
provided and tested
the Solaris 2.4 changes.

Friedel Loinger <friedel@wise.tau.ac.il> suggested
the addition of support for the SunOS 4.1.3 PC file
system ("pcfs").

Andreas Stolcke <stolcke@ICSI.Berkeley.EDU> supplied
a fix to a file argument processing bug that causes

lsof to crash when supplied the path of an NFS
mounted file. The bug affects lsof versions for
Motorola V/88 R40V4.2, SGI IRIX 5.2, and Solaris
2.[123].

Corrected an error in the path to include prdata.h
in dlsof.h for Motorola V/88 R40V4.2.

3.10 October 21, 1994
This revision adds support for the cache and PC file
systems to Solaris. It fixes these bugs: a problem
with the display of Motorola V/88 R40V4.2 device
numbers; and a failure of Readlink() to resolve
symbolic links completely in all cases.

Some major internal restructuring was necessary to
be able to display negative inode numbers for SunOS
PC file system nodes, while displaying them as
unsigned numbers for
Solaris, hence all dialect
versions were affected.

3.11 October 28, 1994
This revision adds support for Linux version 1.0.9.
Tim Korb <jtk@arthur.cs.purdue.edu> kindly provided
a development system in the Computer Science
Department at Purdue. It is likely that the Linux
revision will have to be adjusted for each installation,
and it is probable that this revision will not run
under later versions of Linux. See the 00FAQ and
00REAME files for more information on Linux tuning.

3.12 October 29, 1994
This revision supports Linux version 1.1.47 -- the
Yggdrasil Plug-and-Play Linux Fall '94 release.
Both Linux versions now obtain kernel symbol
addresses from the /zSystem.map file.

November 4, 1994
Hendrik G. Seliger <hank@Blimp.automat.uni-essen.de>
reports that lsof compiles and seems to work under
Linux 1.1.61. He used the linux1147 Configure
abbreviation. Marty Leisner <leisner@sdsp.mc.xerox.com>
reports that the linux1147 Configure abbreviation
produces
a working lsof for Linux 1.1.64, too.

3.13 November 11, 1994

This revision contains Pyramid DC/OSx support, provided
by Anthony Shortland <Anthony.Shortland@FMR.com>.

Marty Leisner <leisner@sdsp.mc.xerox.com> reported
a segmentation violation failure in Linux lsof.
In response I changed its task structure access to
use /dev/kmem instead of mmap'ing kernel memory.
This avoids a possible segmentation violation when
bad pointers are obtained from kernel memory. I
also enabled the setting of Linux INET and Unix
select flags so that the -n and -U options work --
I forgot to do that when I did the Linux port.

Marty Leisner reports that the lunix1147 Configure
abbreviation produces a working lsof for Linux
1.1.64, too.

Francois Pindard <pinard@iro.umontreal.ca> provided
a correction to the Linux install rule.

3.14 November 16, 1994
This revision adjusts the Configure script stanzas
for DEC OSF/1, Motorola V/88, Pyramid DC/OSx, and
Ultrix.
It also contains additional support for
DC/OSx and Ultrix.

Bruce Beare <bjb@pyramid.com> and Robert Vernon
<bob@pyramid.com.au> helped me understand Pyramid
nomenclature. Robert Vernon provided DC/OSx support
for the RxFS file system and added machine series
auto-detection to the Configure script. Alex Podlecki
<a.podlecki@att.com> helped test the updated DC/OSx
distribution.

Chris Timmons <skynyrd@tahoma.cwu.edu> provided
information on RISC and VAX Ultrix 4.4 that led to
correct prefixing of nlist() names. I updated the
Configure script to detect Ultrix version, machine
hardware type, and the presence of DECnet support.

I also updated the OSF/1 and V/88 Configure scripts
to determine configuration parameters automatically.

3.15 November 25, 1994
Corrected DEC OSF/1 V2.0 support of the ADVFS file
system.

Bernt Christandl <beb@mpe-garching.mpg.de> and Alex Kreis <akreis@us.oracle.com> helped test. No OSF/1 V1.x system with ADVFS was available for testing.

3.16 December 2, 1994

Fixed some device number handling bugs in DEC OSF/1 V2.0 and V3.0 support.

3.17 January 25, 1994

lsof now supports SGI IRIX 5.3, thanks to changes supplied by Dave Olson <olson@anchor.engr.sgi.com>; and SCO OpenDesktop or OpenServer releases 1.1 and 3.0, thanks to support from Dion Johnson <dionj@sco.com>, Bela Lubkin <belal@sco.com>, and Nathan Peterson <nathanp@sco.com>.

Dave Olson pointed out an IRIX stream handling bug in sgi/dnode.c. When I investigated it, I found that it had implications wider than SGI IRIX. The eventual fix provided the display of inode numbers for character devices when the inode number must be obtained from /dev. IRIX, Solaris, and SunOS benefit from the fix.

I added version detection to the Configure script, so there is now just one Configure abbreviation for IRIX versions 4.05, 5.2, and 5.3 -- ``irix''. (The Configure abbreviation for the SCO dialect ``sco''.)

Ian Darrow <ian@sq.com> pointed out that lsof wouldn't Configure or work properly under Solaris on an i86pc. Sorting out the difficulties made clear that the HASSWAPPORT definition should be removed from every machine.h file and that ntohs() should be used in every dsock.c on every port supplied to printinaddr().

Andreas Stolcke <stolcke@ICSI.Berkeley.EDU> pointed out a method that sometimes allows lsof to report on files open to a crashed or unavailable remote NFS server. This led to the addition of code, where possible, to estimate the device number of mount points that cannot be stat()'d. The alternate device number can come from /etc/mtab or /etc/mnttab, or from the dialect's version of them. On systems

that use /etc/mtab or /etc/mnttab, it is sometimes
possible to add the device number manually to the
mount options field in the form ``dev=xxxx''. Some
internal changes in the way lsof handles device
numbers were necessary to prevent ones
whose dev_t
typedef is a signed short from causing sign extension
when promoted to integers as function arguments.

David Addison <addy@meiko.co.uk> and Robert Ehrlich
<Robert.Ehrlich@inria.fr> pointed out that lsof
errs when reporting device numbers and other node
information for some special Sun files. I rewrote
most of sun/dnode.c to correct the problem; Robert
rewrote it again; and I rewrote it once more.
David and Robert helped me test it under Solaris
2.[34] and SunOs 4.1.[23].

While using code from the Motorola V/88 port for
the SCO port, I found and fixed some NFS bugs in
the V/88 port.

3.18 January 31, 1995
I added the -b and -w options. The -b option causes
lsof to avoid the functions lstat(2), readlink(2),
and stat(2) that might block in the kernel -- e.g.,
when they reference an inaccessible NFS file system.
Instead it uses alternate device numbers obtained
from the mount table, where possible.

The -w option causes lsof to suppress
warning
messages -- e.g., when the -b option has been
specified. The suppression of warning messages
was formerly bundled into the -t option. The -t
option now selects -w.

I figured out how to make alternate AIX 3.2.5 device
numbers from the kernel mount structure. The new
-b option therefore works under AIX 3.2.5.

With the help of Chance Neale <cneale@panix.com>
I fixed bugs in the Motorola V/88 R32V3 NFS support.

I added a solariscc Configure abbreviation for those
who want to use Sun's C compiler.

3.19 February 10, 1995

Robert Ehrlich <Robert.Ehrlich@inria.fr> pointed out
that lsof might be able to gather more complete path
name information from the kernel's name cache. Name
cache access may be inhibited with the new -C option.
Revision 3.19 implements name cache access for:

DEC OSF/1 [23].0
Dynix (Purdue 3.0.12)
EP/IX 2.1.1
FreeBSD 1.1.5.1
HP-UX 9.01
Motorola V/88 R40V4.2
NEXTSTEP 3.1

SGI IRIX 5.3
Solaris 2.[34]
SunOS 4.1.x
Ultrix 2.2 and 4.2

Revision 3.19 does NOT implement name cache access for:
===

AIX The knlist() function won't
return cache addresses --
some IBM wisdom to "protect"
their customers.

Linux My only access is to 1.0.9,
and it doesn't seem to have
a kernel name cache.

Motorola V/88 It doesn't have a unified
R32V3 name cache.

Novell UnixWare I don't have a test system.

Pyramid DC/OSx I don't have a test system.

SCO OpenDesktop It doesn't have a unified
OpenServer name cache.

SGI IRIX 4.0.5H I saw no unified name cache
in the header files before
my 4.05H system was converted
to 5.2.

SGI IRIX 5.2 I don't have a test system.

Another Robert Ehrlich suggestion led to the establishment of a device cache file feature. The new -D option gives control of it. This feature speeds lsof dramatically on some dialects after lsof has been called once and the cache has been built. (Calling stat(2) on several hundred or thousand /dev nodes can take a long time.) The feature can be disabled or modified in the machine.h header file and the dialects/*/ddev.c source file when lsof is built.

3.20 February 23, 1995

Upgraded Linux socket handling for versions 1.1.75 or greater with help from Marty Leisner <leisner@sdsp.mc.xerox.com> and Linus Torvalds <Linus.Torvalds@cs.Helsinki.FI>. There is now a single Configure script abbreviation for linux.

Updated for Motorola V/88 R40V4.3 with help from Mike Feldman feldman@charm.urbana.mcd.mot.com> and Chance Neale <cneale@panix.com>.

Updated for SGI IRIX 6.0 with help from Przemek Klosowski <przemek@rrdjazz.nist.gov and Dave Olson <olson@anchor.engr.sgi.com>.

Corrected access of device cache file that needs to be updated so that someone other than the file owner can rewrite it. Deleted the chmod() failure warning.

Updated Configure and the Sun Makefile to specify absolute paths to the Sun install program.

3.21 March 3, 1995

Removed BSDI BSD/386 support, because I no longer have a test system, and I needed to have separate sources for two of the three dialects (FreeBSD, and NetBSD) once served by the BSDI BSD/386 sources. FreeBSD sources are now in the freebsd subdirectory; NetBSD, in netbsd.

With the help of Greg Earle <earle@isolar.Tujunga.CA.US> and Paul Kranenburg <pk@cs.few.eur.nl> installed new NetBSD support for versions 1.0 and 1.0A. The NetBSD 0.9 support was removed. The 1.0A support has

been tested on Intel and SPARC-based systems.

3.22 March 9, 1995
Fixed a bug in name cache handling that occasionally caused lsof to cause a segmentation violation on FreeBSD. Although the bug didn't do that anywhere else, recreated the binaries of all dialect versions that use the affected code from rnam.frag and rnch.frag.

3.23 March 24, 1995
Removed forgotten HASSWAPPORT reference from HP-UX machine.h and inserted ntohs() calls in the printinaddr() calls of dsock.c for HP-UX and NEXTSTEP.

Added support for NEXTSTEP 3.3, courtesy of Allan Nathanson <ajn@NeXT.com>

3.24 March 31, 1995
Changed Configure script to handle DEC OSF/1 V3.2. Removed leading zero from DEC OSF/1 and ADVFS version values. Added dialects/osf/dec_a/3.2 header file directory, courtesy of Dave Morrison <dmorriso@us.oracle.com>, who also tested the 3.24 DEC/OSF1 V3.2 lsof.

3.25 April 5, 1995
Ported to RISC/os on a R2030 (R2000-based) system, provided by Zdenko Tomasic <zdenko@harvey.cam.rice.edu>.

Tightened security on the device cache file; lsof always tries to change its ownerships to the effective IDs after creating it. This was suggested by Stefan Kelm <kelm@cert.dfn.de>.

Ported to FreeBSD 2.0, starting with work done by Kurt Jaeger <pi@complx.stgt.sub.org> on lsof revision 3.16. Ade Barkah <mbarkah@hemi.com> and William McVey <wam@cs.purdue.edu> provided test systems.

3.26 April 20, 1995
Ported to SCO OpenDesktop or OpenServer 5.0 (aka Everest and 3.2v5.0.0). Hugh Dickins <hughd@sco.COM>, Bela Lubkin <belal@sco.COM>, Craig B. Olofson <craigo@sco.COM>, and Nathan Peterson <nathan@sco.com>, provided me an early-release version of 3.2v5.0.0 and gave technical advice.

Added length checking of the Namech buffer to the printinaddr() function.

3.27 May 2, 1995

Corrected typo in AIX install rule, courtesy of a report from John Colgrave <colgrave@hursley.ibm.com>.

At the suggestion of Greg Earle <earle@isolar.Tujunga.CA.US> added a function to print the name of the unknown protocol (the AF_* symbol), when there is no specific processing for it in dsock.c. This change affected most dialects: exceptions are DC/OSx, Linux, Motorola V/88, and UnixWare.

3.28 May 26, 1995

Added support for Sequent PTX 2 and PTX 4. The PTX 2.1.6 and PTX 4.0.2 test systems and technical advice were provided by Gerrit Huizenga <gerrit@sequent.com>, Peter Jordan <petej@sequent.com>, Kevin Smallwood <kcs@sequent.com>, and Mike Spitzer <mks@sequent.com>. (Thomas A. Endo) <tendo@netcom.com> and (David Putz). <PutzDW@PO1.LMB.unisys.com> tested under PTX 2.1.5. Bob Foertsch <foertsch@uiuc.edu> tested under PTX 4. Kevin Smallwood tested under 2.1.1. Others who helped include Shane Kenney <shane@sequent.com>, Stephan Rossi <rossi@mtu.edu>, Douglas R. Smith <drsmith@us.oracle.com>, and Joel White <jdwhite@netcom.com>.

Changed the local dev structure's name to l_dev to avoid conflicts with the PTX dev structure. Added a common/rdev1.frag -- a variant of rdev.frag. It's used by EP/IX, PTX, RISC/os, and V/88.

Changed printname() to check Namech first and print it if it contains something. This eliminates some hacks in the handling of names for streams, but generates some duplicate device name look-up code in the dnode.c files of some dialects.

3.29 June 2, 1995

Added clone device support to Motorola V/88 R40V4.3.

Added a generic ``-X" option for dialect-specific

use. Used it in AIX to allow use of readx(). Lsof
no longer uses readx() by default, because its use
can cause an AIX 3.2.x and 4.1.x kernel error to
appear. Kevin Ruderman <rudi@acs.bu.edu> reported
this bug to me and the possibility that lsof might
trigger it.

The error, known as the Stale Segment ID bug, hangs
the kernel in its dir_search() function, thus
hanging the application process that called it so
tightly that the application process can neither
be killed nor stopped. The bug does not directly
affect lsof, but may cause the hang when the kernel
is searching directories for other processes.
00FAQ and 00README describe the Stale Segment ID
bug in more detail. Consult dialects/aix/machine.h
for options on enabling or disabling readx() by
default, or permanently enabling or disabling
it
with the HASXOPT and HASXOPT_VALUE definitions.

When not using readx(), AIX lsof may not report
fully on all text and loader references. Changes
to the kernel getuser() function in AIX 4.1.1 appear
to have eliminated the text file and loader file
reference information that once led lsof to use
readx(); of course, without that information, lsof
can no longer report on the executing text file or
shared libraries in 4.1.1.

Changed the Configure script to use a single
abbreviation, aix, for AIX. Configure now uses
/usr/bin/oslevel to determine the AIX version; in
the absence of /usr/bin/oslevel, Configure issues
a warning and assumes the version is 3.2.0. Source
code changes were made to dialects/aix/*.[ch] to
accommodate the new form of the _AIXV value.

3.30 June 8, 1995
Added -c to the installation of the man page in
the Ultrix Makefile's install rule. Thanks go to
Jules van Weerden <Jules.vanWeerden@let.ruu.nl>
for noticing this
omission.

Made FreeBSD 2.0 changes: 1) added automatic sensing
of the FreeBSD 2.0 boot file path, using the
getbootfile(3) function (suggested by Ade Barkah);

2) changed kvm_getprocs(3) function call to use KERN_PROC_ALL symbol from <sys/sysctl.h>, thus eliminating incorrect use of the <sys/kinfo.h> and <sys/kinfo_proc.h> header files; and 3) removed <sys/kinfo.h> and <sys/kinfo_proc.h> header files from the dialects/freebsd/include/2/sys subdirectory of distribution.

Tested under AIX 4.1.2.

3.31 June 16, 1995
Added the NOUSAGEONERR definition to allow lsof to be compiled with the displaying of usage information after option error messages disabled. Lsof is distributed without the NOUSAGEONERR definition -- i.e., usage output is displayed after option error messages.

Worked on documentation in the 00* files and the man page, adding tables of contents, making usage more consistent, trying to insure proper dialect titles, and inserting some
notes about distribution
restrictions (few) and warranty (none).

Fixed Motorola V88 R32V3 bug in handling Internet files. This bug was introduced some time ago, but I have only recently been able to test under R32V3 again.

3.32 June 23, 1995
Added the ability to the Linux nlist() function to automatically detect that the kernel binary is COFF or ELF form. Also corrected the UID_ARG cast from int to u_int. These changes were suggested by Michael Shields <shields@tembel.org>. Joseph J. Nuspl Jr. <nuspl@nvwls.cc.purdue.edu> provided a test system.

Updated lsof for HP-UX 10. Richard Allen <ra@rhi.hi.is> provided a test system. The hpux stanza in the HP-UX configure script was updated to sense the HP-UX version automatically, and to sense the availability of CCITT header files in /etc/conf/x25.

3.33 June 28, 1994
Added options to select "field" output that can be parsed by a subsequent program. (The -f, -F, and

-0 options form the selection
set.) Provided
sample awk and Perl scripts for parsing and displaying
field output. This feature was suggested by Dan
Bernstein <djb@silverton.berkeley.edu>.

Tested under PTX 4.0.3.

3.34 June 30, 1995
Changed display of file offset to decimal in the
form "0t12345678" if it is less than 100,000,000.
The offset is displayed in hexadecimal in the form
"0x12abcdef" if it is larger than 99,999,999.

Changed inode field output from signed to unsigned
decimal. Updated the list_fields.{awk,perl} and
list_NULf.perl5 scripts.

Documented the truncated inode output form (leading
`*' and 5 digits) for inodes that are too large
for the output field; thanks go to Leonard Sitongia
<sitongia@zia.hao.ucar.edu> for pointing out that
this wasn't documented.

3.35 July 9, 1995
Added loopback file system support to Solaris with
advice from Casper Dik <casper@Holland.Sun.COM>.

Removed the NOUSAGEONERR compile option in favor of
producing a shortened
usage message when option
errors are detected.

Marty Leisner <leisner@sdsp.mc.xerox.com> provided
code to validate the Linux system map file (/System.map
or /zSystem.map). If lsof detects that the system
map file doesn't match the booted kernel, it
complains and quits.

Updated host name cache to include dot forms -- e.g.,
when the host name can't be obtained via gethostbydddr().
This prevents subsequent lookup delays for the same address.

3.36 July 20, 1995
Updated kernel name cache handling to assume a default
size for pointer-linked caches (DEC OSF/1, FreeBSD,
NetBSD, and SGI IRIX 5.3) when the kernel's cache size
variable has a value of zero. A warning is issued,

but lsof proceeds to read and use the name cache.

Folded rdev1.frag into rdev.frag by supporting a
HASDNAMLEN #define for those dialects whose DIRTYPE
structure has a d_namlen definition.

Updated Linux distribution to avoid using d_namlen
from struct dirent if the Linux version
is 1.2.10 or
greater. This avoidance might work on earlier
version of Linux, too, but I have no way of telling.

Added support for FreeBSD 2.0.5. Ade Barkah
<mbarkah@hemi.com> provided a test system.

Added WARNDEVACCESS definition to machine.h control
the default issuance of device directory and
subdirectory access errors.

Changed options:

-m (mount warning) option deleted
-c (core file) option changed to -m
-c option redesignated as command selector
-d (device warning) option deleted
-d option redesignated as file descriptor selector
-O (order) option changed to less-overhead option
-r option added to enable repeat mode

Added a repeat mode in which lsof will display
output, sleep for the number of seconds defined by
the repeat-mode option, -r <seconds>, and then
display output again, doing this repetitively until
it receives an interrupt or quit signal. This
option is much more efficient for monitoring a file
than calling
lsof repeatedly from a shell script,
since it entails only one set of lsof startup
operations.

The CANDOCHILD compile-time option has been removed.
The -O run-time option will do the same thing.

3.37 July 27, 1995
Fixed incorrect setting of low-overhead flag from -O
option.

Marty Leisner reports that d_namlen is not needed

under Linux 1.2.8. Changed the #if test that sets HASDNAMLEN accordingly.

Made more changes to option processing: combined -f, -F, and -0 into -F (-0 becomes a field identifier value for -F); now allow -F, -g, -r, and -S to have an optional value; made -F? (help) and -F0 (all fields plus NUL terminator) special forms of -F; and added support for --. These option processing changes are handled with a local getopt() function (named GetOpt() to avoid confusion).

Made yet another attempt to create "standard" install and deinstall SunOS/Solaris Makefile rules.

Corrected improper use of examine_lproc() when in repeat
mode.

3.38 August 3, 1995

Modified Linux and PTX to show TCP's "send next" sequence number as the offset for TCP socket files.

Added some version tests for Linux 1.3.0, provided by Roman Gollent <roman@portal.stwing.upenn.edu>.

Added some more PTX tests around code that shouldn't be active when the NFS layered product is unavailable. Mark Vasoll <vasoll@a.cs.okstate.edu> provided them.

3.39 August 10, 1995

Added generic support for dialect-specific elements in the lfile structure. The HASLFILEADD and SETLFILEADD macroes are used in lsof.h to define the elements and in proc.c to preset them. Field identifiers `1' through `9' are allocated to dialect-specific files. The HASFIELDAP<x> strings define the -F? help text for the FieldSel[] table of store.c, and LISTLFILEAP<x> are macroes, used in the print_proc() function of proc.c, to list fields. (<x> is the field identifier.) Other private element and field processing should be done in dialect-specific
modules.

Used {HAS,SET}LFILEADD, HASFIELDAP[12], and LISTLFILEAP[12] to define and list link count and inode address lfile elements under PTX. Used the

-X option to control when the values are displayed.

3.40 August 25, 1995
Added support for Solaris 2.5-BETA, including rudimentary support for door files and extensive support for fattach'ed files with the help of Henry Katz <hkatz@panix.com>, Joseph Kowalski <jek3@jurassic.Eng.Sun.COM>, and Mike Tracy <mtrac@jurassic-45.Eng.Sun.COM>.

Changed most dialects to use slightly safer fchown() on the device cache file. Changed dvch.frag to avoid creating a device cache file that is owned by root. Cleared caches when reading of device cache file fails and removed extra NL from device cache error messages.

After receiving yet another complaint about Makefile install rules, I decided to remove all install and deinstall rules from the distribution Makefiles. The Makefiles now contain a set
of comments (echo
commands) that describe what the install rule might be. The lsof user is now free to construct install and deinstall rules that meet local conventions and preferences.

3.41 September 5, 1995
Changed Linux kernel symbol handling to avoid the stripping of leading `_' characters that was installed in revision 3.32. (Recent Linux kernels have some symbols that are the same except for the leading `_'.)

The Linux kernel loader format is now determined by testing for "_system_utsname" (COFF) and "system_utsname" (ELF) in the symbols returned by the get_kernel_syms() syscall. If neither or both symbols are present, a warning is issued and COFF format is assumed. If the loader format is COFF, then kernel symbols important to lsof are assumed to have a leading `_'.

Because recent Linux releases add a parameter hashing suffix to kernel symbols, lsof removes it before comparing kernel symbol names and addresses to those in /[z]System.map.

Marty
Leisner, Keith Parks <emkxp01@mtcc.demon.co.uk>,
and Michael Shields helped me with the Linux changes.

After much discussion of the security of the device
cache file on the bugtraq mailing list, I adopted
a suggestion from Dave Sill <de5@sws5.CTD.ORNL.GOV>.
His suggestion removes the world-writable device
cache file from /tmp and creates instead a mode
0600 device cache file in the home directory of
the real user ID that is executing lsof. Lsof
issues a warning message when it does this. (The
warning can be suppressed with -w.) The HASDCACHE
definition becomes a relative path. When lsof is
run from root, it will create a device cache file
in root's home directory, e.g., / or /root, but
the file will be readable and writable only by
root. This should make the device cache file much
more secure.

Added support for SGI IRIX 6.1. Dave Olson provided
technical support and Przemek Klosowski supplied
a test system. Since Przemek's
system formerly
supported my testing of lsof for IRIX 6.0, its
update to 6.1 means I have not tested lsof under
IRIX 6.0 since revision 3.39.

Changed name list structure element initialization
for V/88 to make gcc happy. Albert Chin-A-Young
<china@cig.mot.com> suggested this.

3.42 September 7, 1995
Changed device cache file naming process to add a
suffix formed of an underscore, followed by the
first component of the host name returned by
gethostname(2). This allows lsof to create separate
device cache files for each host from which it is
run for the same UID when the UID's home directory
is shared by the hosts via NFS.

3.43 September 12, 1995
Enabled SCO searching for stream files and Release
5.0 Unix domain socket files by name.

Defined HASDOPTPATH for dialects that can supply
a path with -Db, -Dr, and -Du. Defined it for all
but DC/OSx, UnixWare, and V/88. Used it in the

ctrl_dcache() function of arg.c to enable and
disable -Db,
-Dr, and -Du.

Used is_readable() in dvch.frag when opening the
device cache file for reading.

3.44 September 19, 1995
Added test for setuid-root state so that some
security-sensitive code now disabled by #define's
can by dynamically disabled.

Enhanced, extended, improved, secured, and documented
formation and use of the device cache file path.
More options, more carefully controlled are now
available. A separate documentation file, 00DCACHE,
accompanies the distribution to explain the device
cache file path handling.

Where possible, lsof now drops setgid permission
as soon as possible. Two exceptions are the Solaris
and SunOS versions of lsof which need to close and
re-open kvm access. Setuid-root lsof implementations
must retain that permission to access files in /proc.

Improved the README.lsof_<revision> file that
appears in the lsof wrapper tar file with help from
Jon A. Tankersley <tank@amoco.com>.

Added Veritas file system support
to the HP-UX
dialect port.

Albert Chin-A-Young tested lsof under Motorola V/88
R40V4.1 and provided #if/#else/#endif changes.

3.45 September 20, 1995
Enabled setgid permission surrender for Solaris
and SunOS dialects.

3.46 October 5, 1995
Added more conversions to HASPERSDC, based on
suggestions from John Gardiner Myers <jgm+@CMU.EDU>.
They make it possible to locate the personal device
cache file in /tmp, for example. A new -D function,
`?', reports device cache file name formation
information.

Gained access to AIX 4.1.3, compiled lsof there, and found that it seems to work.

Tested lsof under FreeBSD 2.1.0-950726-SNAP. John Clear <jac@dragonfly.vet.purdue.edu> kindly provided a test system.

Added a Customize script that helps with the job of modifying some important (e.g., security-related) compile-time options. Configure calls Customize, but can be told not to with the -n|-nocust options.

Fixed over-sensitivity to unexpected kernel file structure pointer values in HP-UX version that led to premature exit. Lionel Cons <cons@dxcern.cern.ch> pointed out the problem.

With the help of Leif Hedstrom <leif@infoseek.com> identified a pair of conflicting Solaris 2.4 patches that prevent lsof from working. A work-around is described in section 00FAQ.

3.47 October 16, 1995

Enabled suppression of an HP-UX pstat() warning message. Added big_brother.perl5 to field output scripts/ subdirectory. Both changes are courtesy of Lionel Cons <Lionel.Cons@cern.ch>.

Added a test for automount detritus in the SCO mount table.

Added kernel name cache support to SCO dialect. Modified most name cache support to report full path names without the intervening `` -- '' when possible.

Added an Inventory script to check the contents of the distribution, using a new file, 00MANIFEST. The Configure script normally calls Inventory. Changed the -n option to Configure to avoid calling the Customize and Inventory scripts and dropped the -nocust option. The presence of .neverCust suppresses the calling of Customize; .neverInv, Inventory. The Inventory script creates .ck00MAN when it completes, so that subsequent calls to

Inventory won't check the inventory again -- although
the caller is given the opportunity to have the
inventory rechecked.

Added PTX 4.1.0 support, courtesy of a test system
supplied by Kevin Smallwood <kcs@sequent.com>.

Picked lint for gcc in the V/88 dproc.c from hints
provided by Albert Chin-A-Young <chinay@cig.mot.com>.

3.48 October 20, 1995
Improved root directory detection during name cache
lookup.

Remove the Novell UnixWare and Pyramid DC/OSx ports
from the distribution, because I have not been able
to test them for 40 or more revisions. Their pieces
may now be found on vic.cc.purdue.edu in
pub/tools/unix/lsof/OLD/{binaries,dialects}.

Corrected an error in Customize that caused it to
incorrectly redefine
HASSYSDC to HASSYSDCPATH. This
was reported by Michael Beirne <beirne@dcdsv0.fnal.gov>.

Made sure that lsof will compile when HASDCACHE is
undefined. A problem with a reference to the DChelp
symbol was reported by Vasco Pedro <vp@fct.unl.pt>
and resolved by always defining DChelp.

Corrected handling of -c and -m options.

Corrected the reading of the SCO /etc/mnttab. Bela
Lubkin <belal@sco.com> helped me understand its
special multi-line format. The "nothing/nowhere"
lines are continuations of the file system directory
and device names when either are > 31 characters.

Corrected SCO version list in Configure help output.

Update special SCO name cache code to make it more
robust.

Add support for IRIX 6.0.1 with the help of Eberhard
Mater <system@grzap1.rz.go.dlr.de>.

3.49 October 25, 1995
Removed need for dialects/sgi/irix601hdr subdirectory,

replacing it with one created by dialects/sgi/Mksrc
and composed of symbolic links to dialects/sgi/irix6hdr.
Eberhard
Mater did the testing.

Added file system inode number to the local file
structures of the DEC OSF/1, DYNIX, EP/IX, HP-UX,
NeXT, PTX, RISCos, SGI, Sun, and V/88 dialects.
Added code to name cache, node, and VFS functions
to set the file system inode number and use it for
faster recognition of files on the file system
mount point.

Added kernel name cache support to Linux. This
has been tested only under release 1.2.13.

3.50 October 31, 1995
Updated 00FAQ: reorganized and renumbered sections;
added some DEC OSF/1 sections; section about the
Solaris and SunOS Sun KERNELBASE.

Added an alternative readdir() function, called
ReadDir(), to dialects/osf/ddev.c This function
was supplied by Duncan McEwan <duncan@comp.vuw.ac.nz>,
who discovered that the getdirentries() function
in DEC OSF/1 versions 3.[02] returns an incorrect
length for the /dev/fd directory when it is a file
system mount point. Modified the Configure script
to
define USELOCALREADDIR for 3.[02] to enable
using this local function.

Modified the Solaris/SunOS Mksrc to create a dummy
(empty) kernelbase.h for Solaris 2.5 (5.5).

3.51 November 8, 1995
Modified the Configure script to declare the kernel
state definitions appropriate to IRIX 6.1 on IP21
and IP26 platforms. News of the need for this came
from Kate Fissell <Kate.Fissell@IUS4.IUS.CS.CMU.EDU>
and Dave Olson <olson@anchor.engr.sgi.com>.

Modified the SGI IRIX dproc.c to provide more
information when the kernel's idea of the size of
a proc structure doesn't match sizeof(struct proc).
This mismatch can occur if the wrong kernel state
definitions are used to condition the header files
(e.g., <sys/proc.h>) included when compiling dproc.c.

Made the -i option with no arguments equivalent to
the -n option -- i.e., they both select the listing
of all open Internet files.

Supplied a missing "you" in the Customize script
introduction. John Jackson <jrj@cc.purdue.edu>
noticed
the omission.

Modified the Customize script to put long messages
in here documents rather than echo statements, so
that changing and reformatting them is easier.
John Jackson offered this helpful suggestion.

Fixed a port number cast bug in Solaris 2.[45],
courtesy of information and code supplied by Allan
Black <allan@scotnet.co.uk>.

Automated the detection of Solaris 2.4 patches
101945-32 and 102303-02 that cause the installed
kernel's user structure to differ from the one
defined by <sys/user.h> because of a patch to
<sys/auxv.h> that wasn't applied when the kernel
was built. The Configure script invokes an alternate
auxv.h file and warns that it is doing so.

Fixed a problem with Inventory script that shows up
on systems where echo is not an sh built-in. The
bug was reported by Scott Ballew <smb@cc.purdue.edu>.

3.52 November 27, 1995
Added support for Linux versions 1.3.22 and above,
courtesy of changes supplied
by Keith Parks
<emkxp01@mtcc.demon.co.uk>.

Changed -d option processing to allow specification
of a comma-separated list of file descriptors.

Modified SCO support to allow NFS code to be optional
at the request of Dave Gilbert
<agere!dgilbert%peapod.com@zool.interaccess.com>.

Enabled HP-UX 10.x version to display device and
inode numbers for FIFOs. The problem was reported
by Jeff Earickson <jaearick@colby.edu>.

3.53 December 8, 1995
Enhanced NeXTSTEP FIFO reporting.

Fixed a formatting problem in the man page, reported
by Angel Li <angel@flipper.rsmas.miami.edu>.

Added support for DEC OSF/1 4.0-BETA. Angel Li
provided the test system.

Added a -v option to display lsof version information.
Marty Leisner <leisner@sdsp.mc.xerox.com> suggested
this.

Replaced touch with echo in Inventory script to avoid
DEC OSF/1 4.0 complaint.

Tested under PTX 4.1.2.

3.54 December 15, 1995
Added support for IRIX 6.2-BETA. The support for
older IRIX
versions changed considerably in the
process. Revision 3.54 has been tested under these
older IRIX versions: 5.3 and 6.1. Angel Li
<angel@flipper.rsmas.miami.edu> provided a test
system and Jim Brown <jim@guanabana.rsmas.miami.edu>
helped.

Tested under AIX 4.1.4.

Decommissioned the DYNIX port -- I no longer have
access to a test system.

Added the HASXOPT_ROOT define to allow the lsof
builder to restrict the use of the dialect-specific
X option (AIX and PTX currently) to processes whose
real user ID is root. Updated the Customize script
to provide an easy mechanism to change HASXOPT_ROOT.
AIX uses HASXOPT_ROOT; PTX does not. This change
was suggested by R. Lindsay Todd <toddr@rpi.edu>.

3.55 December 22, 1995
Eliminated need for modified DEC OSF/1 headers by
using #undef and #define statements. Chip Stettler
<STETTLERC@wlmpo1.wilm.ge.com> helped test.

Added quick start documentation file, 00QUICKSTART,
containing examples and explanations

of lsof use.

Verified that lsof works under the released Solaris
2.5.

3.56 January 2, 1996
Corrected lock reporting for Solaris 2.[345].

Corrected Linux malloc() kernel symbol handling bug,
reported by Keith Parks <emkxp01@mtcc.demon.co.uk>.

Corrected AIX loader text file selection bug; it
caused all process IDs to be listed when the -t
option and one file system name was specified.
The bug was reported by Christopher C. Evert
<cevert@waii.com>.

Made sure Solaris Kb variable is zeroed before
first use.

3.57 January 12, 1996
Updated SunOS port to obtain lock information from
v_filocks and the lock_list struct to which it
points.

Changed -H to -n. The function formerly performed
by -n can be done by using -i with no address.

Updated Linux FIFO support so that the display for FIFOs
contains device number, inode number, and NAME. Johannes
Kroeger <jkroeger@squirrel.owl.de> reported the lack of
these items in the Linux FIFO display.

Added
RCS identification to header files, Makefiles,
and common fragments.

Added BSDI BSD/OS support for 2.0, 2.0.1, and 2.1-BETA.
Terry Kennedy <terry@spcvxa.spc.edu> kindly provided a
2.1-BETA test system and did the 2.0.1 testing.

Modified the Inventory script to compensate for dialects
that have an expr that doesn't set its exit code when
string matches fail.

Converted internal representations of file offset and
size to unsigned long.

Corrected bug in NetBSD lock handling.

Corrected bug in FreeBSD file system type name handling.

Keith Parks <emkxp01@mtcc.demon.co.uk> reports lsof 3.57 compiles and runs under Linux 1.3.56.

3.58 February 7, 1996

Changed Solaris 2.3 configuration to pass the level of patch 101318 to the source code. This allows a Solaris 2.3 lock handling difference to be accommodated.

Updated 00QUICKSTART to reflect -n and -H changes made in revision 3.57. (Ooops!)

Changed Configure script to compile lsof for SCO versions beyond 3.2v5.0.0 as it is compiled for 3.2v5.0.0. Bill Campbell <bill@celestial.com> reported he has done this successfully.

Added information to 00FAQ about a Linux kernel symbol problem (section 3.7.6) and included a <linux/random.h> patch to work around it. The patch was supplied by Keith Parks <emkxp01@mtcc.demon.co.uk>.

3.59 February 21, 1996

In response to a query from Louis Rayman <lou@asahi.ps.quotron.com>, added special support for Solaris "sockmod" streams, used for Unix domain sockets, that allows their file system device type and inode number to be displayed. It also allows lsof to search for them by name or type (-U).

Added range handling to -d argument.

Added the display of CDFS file size to DEC OSF/1 output.

Added an include of <rpc/xdr.h> to keep gcc on HP-UX 10 happy. Blair Zajac <blair@olympia.gps.caltech.edu> suggested it.

Added Ultrix 4.5 to support list, courtesy of a notification from Gregory Neil Shapiro <gshapiro@WPI.EDU>.

Added AFS support for Solaris 2.4 at the request

of Michael L. Lewis <mlewis@morgan.com> and Phillip Moore <wpm@morgan.com>. Phillip helped me locate a test host, generously provided by Heidi Hornstein <heidi@cmf.nrl.navy.mil> with support from Chaskiel Moses Grundman <cg2v+@andrew.cmu.edu> and Sushila R. Subramanian <sushi@cmf.nrl.navy.mil>. Lsof is configured for AFS with a new script, AFSConfig.

Used a SunOS 4.1.4 test system, provided by Chaskiel, to extend Solaris AFS support to cover SunOS. Used another test system, provided by Chaskiel, to extend AFS support to NEXTSTEP 3.2.

Tested lsof under AFS on yet another Chaskiel-provided system, running Linux 1.2.13 and AFS 3.3, and found that lsof needed no changes to recognize its AFS files.

Used a test system, provided by Curt Freeland <curt@grumpy.cse.nd.edu> and Terry McCoy <terry@anubis.cc.nd.edu> to extend Solaris AFS support to Solaris 2.5 with AFS 3.4-Alpha.

Added
the [-A A] option for specifying the name list file that contains dynamic kernel module addresses. This is defined for the NEXTSTEP, SunOS, and Solaris implementations.

Added stty isig handling (where appropriate) to the Customize and Inventory scripts.

Added support to Solaris for the nfs3 file system type. Its absence was reported by Patrick D. Sullivan <pds@snt.bellsouth.com>.

In response to a report from Tigran Aivazian <bs_s641@ceres.king.ac.uk)> corrected bug in Linux local nlist() function and based the default kernel loader format on a Configure test for CONFIG_KERNEL_ELF in /usr/src/linux/include/linux/autoconf.h.

Fixed a bug in name cache exploration for BSD-derived dialects -- e.g., FreeBSD.

Updated for NetBSD 1.1.

3.60 February 27, 1996
Improved Unix domain socket reporting for Solaris.

Louis Rayman <lou@asahi.ps.quotron.com> helped test.

Added warning messages about absence of Linux CONFIG_MODULES definition in autoconf.h, leading to lack of get_kernel_syms() support. Tigran Aivazian <bs_s641@ceres.king.ac.uk)> supplied the information.

3.61 March 8, 1996

Added AFS support for AIX and HP-UX and verified that the lsof Ultrix version needs no additions for AFS. Chaskiel Moses Grundman <cg2v+@andrew.cmu.edu> provided the HP-UX and Ultrix test systems. Jan Tax <jan_tax@unc.edu> provided an AIX 4.1.4 test system. Bob Cook <bobcook@SLAC.Stanford.EDU> provided 3.2.5 and 4.1.4 test systems.

Fixed minor problems and made improvements to NEXTSTEP, Solaris, and SunOS AFS support. Changed the AFSConfig script to ask for AFS version.

During the Hp-UX AFS work, added the hpuxgcc abbreviation to the Configure script for configuring lsof to be compiled with gcc under lsof.

Fixed a NetBSD mount structure array referencing bug, reported by Peter Svensson <petersv@df.lth.se>.

Dropped support for Motorola V/88, because I no longer have access to test systems.

Added rudimentary support for the IRIX XFS file system type, pending more information.

3.61 March 12, 1996

Corrected misuse of the LSOF_DINC shell variable in the Configure script for HP-UX and Solaris. Larry Rogers <lrr@cert.org> pointed out this problem. Also removed an obsolete irix52 abbreviation from Configure.

I didn't consider this change sufficient to warrant a new version number, but just rebuilt the 3.61 distribution.

3.62 March 26, 1996

Updated AFS comments in 00README.

Supplied missing break statement in a N_VXFS case
clause in the HP-UX dnode.c.

Added Veritas file support to PTX, courtesy of code
supplied by Laurent Montaron <lpm@sequent.com> and
help from Kevin Smallwood <kcs@sequent.com>.
Created two new source modules (dnode[12].c) to
separate PTX header file node definitions and thus
eliminate symbol conflicts. Laurent did most of
the testing.

Added tests to BSDI, FreeBSD, HP-UX, IRIX, NetBSD,
NEXTSTEP, PTX, Solaris and SunOS lsof
versions that
allow them to report on unknown file system types.

Added IRIX 6.0.1 #if/#else/#endif support in response
to a report and suggested modifications from Scott
Presnell <srp@zgi.com>.

With the help of Dave Olson <olson@anchor.engr.sgi.com>
improved the IRIX 6.2-BETA XFS support.

3.62 March 27, 1996
Corrected SunOS incompatibility with last-minute
addition of Solaris MVFS support. The problem was
reported by Larry W. Virden <lvirden@cas.org>.

I didn't consider this change sufficient to warrant
a new version number, but just rebuilt the 3.62
distribution.

3.63 April 11, 1996
Upgraded Solaris MVFS support. In the process,
enlarged Solaris and SunOS DEVICE output column.

Changed SunOS 4.1.x Configure to make -DNOCONST
Makefile definition dependent on SC version.

At the suggestion of John DiMarco <jdd@cdf.toronto.edu>
suppressed two warning messages: the device cache
file creation warning when -Db has been specified;
and the one
issued when -D? is used with a non-writable
system-wide device cache file and there is no other
writable path. Also at John's suggestion redid

the manner in which child processes are used to
avoid kernel calls that might block; the net effect
of the change is that normally one child process
is required, rather than one per kernel call.

Refined the NetBSD test for <nfs/nfsproto.h> with
a Configure script change.

Modified Configure script to compute AIX version
with ``uname -rv'' when /usr/bin/oslevel can't be
executed. Stephen C. Woods <scw@seas.ucla.edu>
suggested this.

Disabled conflicting prototype definitions in the
local netdb.h used when the SCO 3.0 netdb.h is
missing. Disabled #include of <strings.h> unless
the SCO version is 5.0 or above. Don Kirouac
<dkirouac@minicom.com> pointed out these problems.

3.63 April 15, 1996
Improved Configure's SunOS 4.1.x CC test for compiler
support of the const keyword and avoided Configure's
``test
-f {Customize,Inventory}'' (because the
Ultrix test doesn't grok -x) in response to a report
from Larry Schwimmer <rosebud@cyclone.Stanford.EDU>.

I didn't consider this change sufficient to warrant
a new version number, but just rebuilt the 3.63
distribution.

3.64 April 26, 1996
Added a negate option for entries of the -u list.
Kurt Hillig <khillig@Chem.LSA.umich.edu> suggested
it.

Added a check for legal protocols in the -i option.

Adjusted the Configure and SGI MkKernOpts scripts
to handle more IRIX situations per instructions
from Dave Olson <olson@anchor.engr.sgi.com>.

Added support for HP-UX 10.10, courtesy of a test
system provided by Mark Bixby <markb@cccd.edu>.

3.65 May 20, 1995
Corrected errors, reported by Arne H. Juul
<arnej@pvv.unit.no>, in use of IRIX stat structure.

Added support for the IRIX 6.2 cachefs, following
a report from Peter Van Epp <vanepp@sfu.ca>.

Added clone support for AIX 4.1.4 and above.

Adjusted the
IRIX configuration to work properly
for 64 bit IRIX 6.2 systems. Richard Chycoski
<richard@sfu.ca> and Peter Van Epp <vanepp@sfu.ca>
provided a test system.

3.66 June 19, 1996
Improved the HP-UX VXFS test in the Configure
script, based on a report from Robert Hall
<rjh6810@misty.ca.boeing.com>.

Added SCO information to 00FAQ. Added information
about lsof slowness and nameserver.

Added an untested Configure abbreviation for Solaris
2.5.1.

Ambrose Li <ambrose@www.mingpaoxpress.com> supplied
a Linux change that avoids a conflict with the
d_namlen definition in versions 1.99.8 and above.

Added compiler version identification to the
Configure script for AIX and Solaris cc.

Added support for FreeBSD 2.2-960612-SNAP. Ade
Barkah <mbarkah@hemi.com> provided a test system.

3.67 Jult 1, 1996
Made miscellanous documentation corrections.

Added support for gcc under AIX 4.1 and above,
including an aixgcc Configure abbreviation, and a
work-around
for an long long alignment problem.
Stuart D. Gathman <stuart@bmsi.com> and Waldemar
Zurowski <bilbo@pwr.wroc.pl> helped me to understand
the gcc problem and devise the work-around.

3.68 July 17, 1996
Malgorzata Roos <groos@rzusun.unizh.ch>: pointed
out the AIX lsof didn't report the inode number
for named pipes (FIFOs) and wouldn't locate them

by name; _and_ supplied a fix. (Now _that's_ the kind of bug report I like. :-)

Update Configure script to clean out aix41* subdirectories created by the AIX gcc work-around.

Taught IRIX lsof how to report the correct device number, inode number, and size for named NFS pipes.

Taught HP-UX 9.x lsof how to report size/offset and inode number for named NFS pipes. (HP-UX 10.x already knows.)

Taught DEC OSF/1 (errr, Digital Unix) lsof to report device and inode numbers correctly for named pipes. Because stat(2) under DEC OSF/1 V3.2 doesn't report the device number correctly for named pipes, lsof can't
locate them by name, but it can do that under DEC OSF/1 V2.0.

Taught EP/IX 2.1.1 lsof to report device and inode numbers correctly for named pipes.

Taught versions of lsof for PTX 2.1.6 and 4.1.2 to report device and inode numbers correctly for named pipes.

Taught RISC/os 4.52 lsof to report device and inode numbers correctly for named pipes.

Taught versions of lsof for Ultrix 4.2 and above to report inode numbers and file systems names correctly for named pipes (FIFOs).

Added safety check when trying to get a sockaddr_un structure from a BSDI, FreeBSD, or NetBSD mbuf.

Improved documentation on install permissions in 00README at the suggestion of Paul Wickman <Paul.Wickman@amd.com>.

Installed support for the DTYPE_PIPE file structure in FreeBSD 2.2. Changed the FreeBSD version symbol from _FREEBSDV to FREEBSDV.

Added support for NetBSD 1.2.

3.69 July 30, 1996
Added block device name caching and reporting for all dialects.

Improved (I think) IRIX 6.2 64 bit configuration.

Eliminated C name space pollution by removing the leading `_' from all dialect version symbols that had it: _AIXV, _BSDIV, _OSF1V, _ADVFSV, _EPIXV, _HPUXV, _IRIXV, _PTXV, _RISCOSV, and _SCOV.

Changed decosf stanza in Configure script to automatically detect the subdirectory of /sys (or /usr/sys) that contain's the configuration header files for the machine. Added a 00FAQ entry about this.

3.70 August 9, 1996
Set the execute bits on scripts/big_brother.perl5. Changed -H in scripts/watch_a_file.perl to -n. Retained all the command name characters that are available in the proc or user struct for field output. Improved sample install rules for BSDI and HP-UX. Strengthened HP-UX CCITT test in the Configure script. Gildas Perrot <perrot@francenet.fr> suggested these changes.

Improved Solaris local TCP address reporting, based on a bug report from John Caruso <jcaruso@csg.com>.

Improved HP-UX VFS handling, and corrected a bug in VFS handling, based on bug reports from David Capshaw <David.Capshaw@SEMATECH.Org>.

Added support to -i argument handling to allow port lists and ranges, and service name lists to be specified. John DuBois <spcecdt@armory.com> suggested this.

Dropped support for IRIX 4.0.5H. Revived support for IRIX 5.2, courtesy of a test system from Dan Trinkle <trinkle@cs.purdue.edu>.

3.71 August 15, 1996
Improved handling of port ranges specified with the -i option. Improved performance when the only

option is -i.

3.72 August 28, 1996

Fixed bugs and typos in SCO mount table handling.

Added support for OpenBSD (only the i386 architecture type has been tested), using the NetBSD dialect sources. David Mazieres <dm@amsterdam.lcs.mit.edu> provided a test system.

Added fdesc file system support to FreeBSD, NetBSD and OpenBSD. Changed the way proc file system support is activated with additions to the Configure script and
changes to the dialect machine.h files.
Dropped the distribution of the Freebsd <procfs/procfs.h> header file.

Added support for PTX 4.1.4.

3.73 September 5, 1996

Added information to 00FAQ for missing CCITT HP-UX header file x25L3.h. Pasi Kaara <ppk@atk.tpo.fi> provided the information.

Changed AIX header file #include pattern to prevent gcc's loader from complaining about multiply defined etherbroadcastaddr[], fddi_broadcastaddr[], and ie5_broadcastaddr[] CONST u_char arrays from <net/net_globals.h>. (The AIX loader doesn't complain.) David Capshaw <David.Capshaw@SEMATECH.Org> reported this problem.

Removed the HASPWSTAYOPEN definition; it was only used for two dialects that are no longer supported.

Corrected a bug in UID cacheing that appeared during long repeat-mode (-r) operations. The bug was reported by Peter Van Epp <vanepp@sfu.ca>. When in repeat mode the UID cache will be cleared when /etc/passwd changes.

Fixed a bug in
FreeBSD support that causes a segmentation fault on VBAD vnodes.

Deleted ultrix22 from Configure and RHF from Ultrix source files. Dropped 2.2 from support list.

3.74 September 6, 1996
Corrected a bug in FreeBSD's proc table handling,
reported by David O'Brien <obrien@Nuxi.cs.ucdavis.edu>.

3.75 September 9, 1996
Added FreeBSD proc table handling fix from revision
3.74 to BSDI, NetBSD, and OpenBSD dialects.

Improved Solaris VFS handling.

Added pipe handling to OpenBSD. Changed Configure
script to define OPENBSDV for OpenBSD and used that
definition to include the pipe support in the NetBSD
sources. The Configure script defines NETBSDV for
NetBSD. So far neither dialect has any #if/#else/#endif
blocks that depend on version number.

Added support for AIX 4.2.

3.76 September 21, 1996
Plugged a memory leak in command handling, introduced
in revision 3.70. The bug was reported by Peter
Van Epp <vanepp@sfu.ca>.

Fixed a bug in the reporting
of size for IRIX 5.3
EFS files, introduced in revision 3.69 by the name
space pollution abatement. The _IRIXV definition
was used in the IRIX 5.x private efs_inode.h header
file to configure the inode stricture for IRIX 5.3,
so I changed the tests to use IRIXV.

Changed information on the AIX Stale Segment ID bug
to reflect the fact that IBM now says they won't
fix it. They have closed the APAR.

Disabled the AIX gcc long long alignment hack under
AIX 4.2, because it doesn't work there. Installed
a fatal error message in Configure that gcc can't
be used to compile lsof under AIX 4.2 until a work-
around can be developed.

Upgraded BSDI, FreeBSD (2.0 and above), NetBSD
(1.1B and above), and OpenBSD lock reporting.
David Mazieres <dm@amsterdam.lcs.mit.edu> reported
the need for the upgrade.

Made similar lock reporting upgrades to (versions tested are in parentheses): AIX (4.1.4 and 4.2); DEC OSF/1 (2.0 and 3.2d); EP/IX (2.1.1); HP-UX (9.x and 10.10); IRIX (5.2, 5.3, and 6.2); Linux; NEXTSTEP (3.1); PTX (2.1.6 and 4.2); RISCos; SCO (releases 3.0 and 5.0); Solaris (2.5); SunOS (4.1.3); and Ultrix (4.2).

Updated man page and 00FAQ with more information on lock reporting.

Updated PTX lsof for 4.2. Upgraded HP-UX lsof for 10.20. Used a test system, provided by Richard Allen <ra@rhi.hi.is>, and received testing assistance from Marc Winkler <marc@healthchex.com>.

Changed handling of Internet addresses to avoid DNS lookup operations when the address has clearly not been selected. John DuBois <johnd@sco.COM> suggested this.

3.77 October 2, 1996

Changed SCO Configure stanza to call nm by its full path, thus avoiding possible confusion. The change was suggested by Jean-Pierre Radley <jpr@jpr.com>.

Added changes to allow lsof to be compiled by gcc under AIX 4.2 -- enabled some gcc-specific typedef's in the AIX machine.h and disabled the Configure script's rejection of aixgcc for AIX 4.2. The typdef's were supplied by Henry Grebler <henryg@optimation.com.au>.

Based on information supplied by Henry and David J. Wilson <davidw@optimation.com.au>, invented a description and processing for an unknown file struct that is established by AIX 4.2 (at least) for X processes when DISPLAY=:0.0. For convenience I gave its type the DTYPE_PIPE definition, but that may be incorrect.

Fixed some Solaris 2.[34] errors in locking code, added at 3.76, that I couldn't test. Rainer Orth <ro@TechFak.Uni-Bielefeld.DE> reported the problem and supplied the fixes.

Made Configure script supply NeXTSTEP 3.x version
in Makefile so that the shadow vnode locking code,
introduced in 3.76, would be disabled for NeXTSTEP
3.0. Rainer Orth discovered this problem, too.

Added reporting of UNIX domain socket inode numbers
for Linux version 2.0 and above. The addition was
supplied by Matthew Burt <BurtM@poole.siemens.co.uk>.

Enhanced file searching to
report all instances of
references to automounted file systems, even when
they're direct mounts not yet realized. Enhanced
Solaris 2.5 lsof to grok autofs nodes. Victoria
H. Lau <vlau@msmail2.hac.com> pointed out the need
for these enhancements and helped test them.

Changed AIX lock length test so it will work with
gcc under AIX 4.2.

Changed PTX HAS_VXFS symbol, indicating presence
of VxFS, to HASVXFS for consistency with the HP-UX
form of the symbol.

3.78 October 14, 1996
Changed strtol() call in private Linux nlist()
function to strtoul(). Linux kernel addresses at
2.1.0 have their top bit set and appear to be
negative to strtol(). This information was provided
by Marty Leisner <leisner@sdsp.mc.xerox.com>.
Marty also notes that other, unknown-as-of-yet
problems prevent lsof from working under 2.1. He
is investigating, since I don't have access to a
2.1 system.

Added definitions to machine.h for a private file
struct type (HASPRIVFILETYPE
and PRIVFILETYPE) that
can be accommodated without changing prfp.frag,
much as HASPIPEFN works for PIPE file struct types.

Used the new private file struct type support to
support the AIX f_type=0xf that DISPLAY=:0.0 causes.
Changed its output TYPE from PIPE to SMT; displayed
file size as buffer size less free bytes in buffer;
enabled recognizion under AIX 4.1.4. Mike Feldman
<feldman@charm.urbana.mcd.mot.com> and others helped
me identify this file as a Shared Memory Transport

(SMT) socket.

Corrected a function prototype in the HP-UX dnode.c for HP-UX 10 and greater; gcc objected; HP's cc did not. Christian Krackowizer <kra1@technodat.co.at> reported the problem.

Made AFSConfig script more capable of locating the cell's root directory. Updated AFS documentation in 00FAQ and 00README. Both were suggested by Timothy Miller <tsm@cs.brown.edu>.

Installed update to big_brother.perl5 script from Lionel Cons <Lionel.Cons@cern.ch>.

3.79 October 29, 1996

Added support for IRIX 6.4, courtesy of a test system provided by Angel Li <angel@rrsl.rsmas.miami.edu>. Fixed FIFO and NFS3 bugs in IRIX 6.2 lsof in the process. Lsof has not been tested under IRIX 6.3, but the Configure script has a stanza for it.

Changed device functions to use stat() instead of lstat(). Used WARNDEVACCESS to suppress stat(2) failure messages.

Tested under OpenBSD 2.0.

3.80 November 8, 1996

Corrected comments in 00README about using the sunos413 and sunos413cc Configure abbreviations.

Made some Configure and Customize script changes, suggested by Bruce Jerrick <bruce@cse.ogi.edu>.

Added missing elements to definition of local Solaris 2.3 lock_descriptor structure so that dnode.c will compile and work properly under it. Corrected a bug in Solaris 2.[34] lock descriptor handling.

3.81 November 14, 1996

Corrected error in the "invented" HP-UX 10.20 proc struct. The erroneous struct definition named the set-UID member as the UID member, resulting in occasional incorrect UID attributions in lsof

output.

At the suggestion of Larry Schwimmer <schwim@cyclone.stanford.edu>, changed AFSConfig to use awk to get the cell name from /usr/etc/vice/ThisCell, thus avoiding a problem when the cell name line has more than one word.

Added -DSWASH to IRIX 6.2 options propagated from the kernel build CCOPTS to lsof's Makefile. Randolph J. Herber <herber@dcdrjh.fnal.gov> did the detective work that revealed the need for this. IRIX 6.2 patch 1488 added -DSWASH and its effects.

3.82 December 11, 1996

Updated Configure script for FreeBSD 3.0 and SCO OpenServer 5.0.[24]. FreeBSD Configure script change was supplied by David E. O'Brien <obrien@NUXI.com> and SCO Configure script change was supplied by Bela Lubkin <belal@sco.COM>.

Tested lsof under FreeBSD 3.0, courtesy of a test system provided by Ade Barkah <mbarkah@hemi.com>.

Added changes to support SCO OpenServer 5.0.4 (Comet), supplied by Bela Lubkin <belal@sco.COM>.

Added support for UnixWare 2.1. D. Chris Daniels <chrisd@dlpco.com> provided a test system and Bela Lubkin provided technical assistance.

Added support for Pyramid DC/OSx 1.1 and Reliant UNIX 5.43. Bruce Beare <bjb@pyramid.com> and Kevin Smith <kevin@pyramid.com> provided test systems and technical assistance. This dialect version must run setuid-root, since it accesses proc and user structures vic the /proc file system.

Tested under PTX 2.1.9 and added support for PTX 4.2.1.

At Bela Lubkin's suggestion added a commercial to the lsof man page, -h option, and -v option output, telling where to get the latest revision. This entailed large scale rearrangement of the -h output to keep it as short as possible. It also involved shortening the -X explanation for PTX.

Made sure that address segment access errors didn't
incorrectly force the listing of a process. This
fix was needed
by the Sun, Pyramid, and UnixWare
ports.

Corrected bug in the way the local device table is
sorted.

3.83 December 30, 1996
Added support for Solaris 2.6 (Beta) with help from
Casper Dik <casper@holland.Sun.COM>, May Jackson
<methalya.jackson@eng.sun.com>, Joseph Kowalski
<jek3@Eng.Sun.COM>, and the Solaris 2.6 Beta test
program.

Fixed an inode file system type processing bug in
SCO OpenServ 5.0 and greater, reported by Robert
Lipe <robertl@arnet.com>.

Fixed bugs in SCO kernel name cache probing, courtesy
of code and suggestions from Bela Lubkin <belal@sco.COM>.

Revised kernel name list handling to remove the need
for changing two files (dlsof.h and dstore.c) when
altering, removing, or adding name list symbols.
All dialects were affected.

Added support for SCO OpenServer event "clones."
Robert Lipe need for their support and Bela Lubkin
provided technical assistance in identifying them.

Added display of bound name to Solaris UNIX
domain
socket file handling.

Correct bug in SunOS address space ("txt" file)
handling.

Tested under UnixWare 2.1.1.

Changed SGI IRIX lsof to use the kernel's proc
struct size when striding through its proc table
(IRIX versions below 6.4). The proc struct size
difference warning is still issued, and lsof still
uses the proc struct size and proc struct from
<sys/proc.h> to read and process proc table

information. Added a note to 00FAQ about this.

Deferred Internet host and port name lookups to
print time, thus avoiding lookups for files that
are not listed.

3.84 January 13, 1997
Updated the Pyramid private configuration script,
MkKernOpts, to propagate the R4000 definition for
DC/OSx systems so equipped. Anthony Shortland
<anthony.shortland@FMR.COM> pointed out the need
for this and Kevin Smith <kevin@pyramid.com> provided
access to a test system.

Added information to 00FAQ about UDP ports for
which lsof can't find users, because the
ports are
reserved to the kernel and aren't associated with
open files.

3.85 January 17, 1987
The DEC OSF/1 kernel name cache can be processed
as a simple table, rather than a linked list, so
changed the interface to rnam.frag accordingly.

Added a new optional output field, parent process
ID (PPID). The -R option (for paRent) selects it,
and the `R' field identifier labels it. Updated
some scripts to handle it and developed two new
scripts, idrlogin.perl and idrlogin.perl5, to
use it in locating nework (rlogind and telnetd)
source addresses for shell processes. Added some
information about the new scripts to 00QUICKSTART.

3.86 January 30, 1997
Add explanation of why device warning messages
disappear when the device cache file is used.

Changed Linux Configure stanza to check more
places for the [z]System.map file and warn if
the one located differs in date from /vmlinuz.
Bjorn S. Nilsson <NILSSON@nbivms.nbi.dk> suggested
this for easier configuration
at Linux 2.0.28.

Changed Linux Confifgure stanza to check for the
presence of fl_fd, fl_file, and fl_whence in the
file_lock structure of <linux.fs.h> and define

symbols appropriately.

Changed Linux lock testing to test task structure
pointer (fl_owner) from file_lock struct as well
as (possibly) the file struct pointer (fl_file) or
file decriptor number (fl_fd) to identify the lock
owner, depending on what HAS_FL_* symbols were
defined by Configure's file_lock structure examination.
Added section to Linux Problems in 00FAQ about this.

Corrected 00FAQ reference in Configure's Solaris
2.4 stanza.

3.87 February 11, 1997
Corrected setting of VxFS device number for HP-UX
and PTX.

Added VM map flag test #if/#else/#endif for recent
versions of FreeBSD 3.0, supplied by Chris Timmons
<skynyrd@opus.cts.cwu.edu>.

Added a #define that removes a conflict between a
signal() prototype in the IRIX 6.4 <sys/systm.h>
and one in its <sys/signal.h>,
exposed when cachefs
support is enabled. Wolfgang Hecht
<hecht@zedat.fu-berlin.de> identified the need for
this addition and helped test it. Refined IRIX
proc struct size test, warning, and use.

Revised Linux system map file handling (yet again)
to search for the file at execution time, rather
than in the Configure script. Marty Leisner
<leisner@sdsp.mc.xerox.com> suggested this.

Added VxFS support to Solaris lsof with help from
Peter Radig <radig@DresdnerBank.de>. Philip Kizer
<pckizer@tamu.edu> helped test.

Added support for PTX 4.3, thanks to access provided
by Peter Jordan <petej@sequent.com>.

3.87 February 11, 1997
supplement Updated FreeBSD kernel name list handling.

3.88 February 17, 1997
Added documentation files -- 00.README.FIRST[_<version>]
and 00RELEASE.SUMMARY_<version> -- to the distribution.

Vic Abell <abe@purdue.edu>
Purdue University Computing Center
February 17, 1997

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/OLD/lsof3_00DIST
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1997 Purdue Research Foundation, West Lafayette, Indiana
* 47907.  All rights reserved.
*
* Written by Victor A. Abell
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
* any computer system, and to alter it and redistribute it freely, subject
* to the following restrictions:
*
* 1. Neither the authors nor Purdue University are responsible for any
*    consequences of the use of this software.
*
* 2. The origin of this software must not be misrepresented, either by
*    explicit claim or by omission.  Credit to the authors and Purdue
*    University must appear in documentation and sources.
*
* 3. Altered versions must be plainly marked as such, and must not be
*    misrepresented as being the original software.
 *
* 4. This notice may not be removed or altered.
*/
```

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dfile.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/rmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/rnch.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/rdev.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dproto.h
* /lsof-4-92-1-zip/lsof-4.92.1/lib/ptti.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/sun/dnode2.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dmnt.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dproc.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dsock.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/fino.c

* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dstore.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/cvfs.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dnode.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/lkud.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/prfp.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/pdvn.c
* /lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/dlsof.h
* /lsof-4-92-1-zip/lsof-4.92.1/lib/rnam.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/rnmh.c
*
/lsof-4-92-1-zip/lsof-4.92.1/dialects/linux/machine.h
* /lsof-4-92-1-zip/lsof-4.92.1/lib/isfn.c
* /lsof-4-92-1-zip/lsof-4.92.1/lib/dvch.c
No license file was found, but licenses were detected in source scan.

Notes for the distribution of lsof version 4

****
| The latest release of lsof is always available via anonymous ftp |
| from lsof.itap.purdue.edu. Look in pub/tools/unix/lsof. |
****

Contents

Dialects Supported
How Lsof Works
Lsof Output
Getting Started Quickly
Limiting, Filtering, and Selecting Lsof Output
Parsing Lsof Output with Another Program
Repeat Mode
Distribution Restrictions
Cautions
Distribution Contents
Warranty
Bug Reports
The lsof-l Mailing List
Version 3 Release Notes
3.0, May 24, 1994
...
3.88, February 17, 1997
What's New in Version 4
Version 4 Release Notes
4.0, February 24, 1997
4.01, March 3, 1997
4.02, March 21, 1997
4.03, April 7, 1997
4.04, April 17, 1997

4.04
supplement, April 18, 1997
4.05, April 24, 1997
4.06, April 30, 1997
4.07, May 12, 1997
4.08, May 23, 1997
4.09, June 1, 1997
4.10, June 8, 1997
4.11, June 12, 1997
4.12, June 24, 1997
4.13, July 9, 1997
4.14, July 22, 1997
4.15, August 15, 1997
4.16, September 25, 1997
4.17, October 14, 1997
4.18, October 25, 1997
4.19, October 30, 1997
4.20, November 11, 1997
4.21, December 1, 1997
4.22, December 15, 1997
4.23, January 16, 1998
4.24, January 28, 1998
4.25, February 7, 1998
4.26, February 17, 1998
4.27, March 6, 1998
4.28, March 10, 1998
4.29, March 26, 1998
4.30, April 9, 1998
4.31, April 21, 1998
4.32, May 13, 1998
4.33, May 22, 1998
4.34, June 26, 1998
4.35, July 17, 1998
4.36, August 4, 1998
4.37, September 15, 1998
4.38, November 25, 1998
4.39, December 29, 1998
4.40, January 25, 1999
4.41, February 27, 1999
4.42, March 30, 1999
4.43, May 11, 1999
4.44, June 24, 1999
4.45, July 30, 1999
4.46,
October 23, 1999
4.47, November 29, 1999
4.48, January 14, 2000
4.49, April 3, 2000

4.50, June 29, 2000
4.51, August 21, 2000
4.52, November 8, 2000
4.53, December 6, 2000
4.54, January 19, 2001
4.55, February 15, 2001
4.56, May 3, 2001
4.57, July 19, 2001
4.58, September 13, 2001
4.59, October 20, 2001
4.60, November 9, 2001
4.61, January 22, 2002
4.62, March 7, 2002
4.63, April 23, 2002
4.64, June 26, 2002
4.65, October 10, 2002
4.66, December 22, 2002
4.67, March 27, 2003
4.68, June 18, 2003
4.69, October 16, 2003
4.70, January 16, 2004
4.71, March 11, 2004
4.72, July 13, 2004
4.73, October 21, 2004
4.74, January 17, 2005
4.75, May 16, 2005
4.76, August 30, 2005
4.77, April 10, 2006
4.78, April 24, 2007
4.79, April 15, 2008
4.80, May 12, 2008
4.81, October 21, 2008
4.82, March 25, 2009
4.83, January 18, 2010
4.84, July 29, 2010
4.85, September 27, 2011
4.86, April 10, 2012
4.87, January 2, 2013
4.88,
October 13, 2014
4.89, July 7, 2015
4.90, February 14, 2018
4.91, March 26, 2018
4.92, May 5, 2018

Dialects Supported
==========

Lsof (for LiSt Open Files) lists files opened by processes on
selected Unix systems. Version 4 is a source reorganization of
version 3, itself a major revision of version 2. Version 4 has
been tested on:

Apple Darwin 9 and Mac OS X 10.[567]
FreeBSD 10.3, 11.0 and 12.0 for AMD64-based systems
Solaris 9

(The pub/tools/unix/lsof/contrib directory on lsof.itap.purdue.edu
contains information on other ports.)

If your favorite Unix dialect is not in the list, or if your version
of it is more recent than the ones listed, please contact me at
<abe@purdue.edu>.

Version 3 of lsof was tested on:

AIX 3.2.5, 4.1[.[1234]], and 4.2
BSDI BSD/OS 2.0, 2.0.1, and 2.1 for x86-based systems
DC/OSx 1.1 for Pyramid systems
Digital UNIX (DEC OSF/1) 2.0, 3.0, 3.2, and 4.0
EP/IX 2.1.1 for the CDC 4680
FreeBSD 1.1.5.1, 2.0, 2.0.5, 2.1, 2.1.5 for x86-based
systems
HP-UX
8.x, 9.x, 10.01, 10.10, and 10.20
IRIX 5.2, 5.3, 6.0, 6.0.1, and 6.[124]
Linux through 2.0.27 for x86-based systems
NetBSD 1.0, 1.1, and 1.2 for x86 and SPARC-based
systems
NEXTSTEP 2.1 and 3.[0123]
OpenBSD 1.2 and 2.0 for x86-based systems
Reliant UNIX 5.43 for Pyramid systems
RISC/os 4.52 for MIPS R2000-based systems
SCO OpenServer Release 1.1, 3.0, and 5.0.x for x86-based
systems
SCO UnixWare 2.1 and 2.1.1 for x86-based systems
Sequent PTX 2.1.[1569], 4.0.[23], 4.1.[024], 4.2[.1],
and 4.3
Solaris 2.[12345], 2.5.1, and 2.6-Beta
SunOS 4.1.x
Ultrix 4.2, 4.3, 4.4, and 4.5

Version 3 and its predecessor, version 2, may be found at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

How Lsof Works
==========

Using available kernel data access methods -- getproc(), getuser(),
kvm_*(), nlist(), pstat(), read(), readx(), /proc -- lsof reads
process table entries, task table entries, user areas and file
pointers to reach the underlying structures
 that describe files
opened by processes.

Lsof interprets most file node structures -- advfsnodes, autonodes,
cnodes, cdrnodes, devnodes, fifonodes, gnodes, hsnodes, inodes,
mfsnodes, pcnodes, procnodes, rnodes, snodes, specnodes, s5inodes,
tmpnodes. It understands NFS connections. It recognizes FIFOs,
multiplexed files, Unix and Internet sockets. It knows about
streams. It understands /proc file systems for some dialects. On
many dialects it recognizes execution text and library references.
It knows about AFS on some Unix dialects.

Lsof Output
==========

The lsof output describes:

  * the identification number of the process (PID) that has opened
    the file;

  * the process group identification number (PGID) of the process
    (optional);

  * the process identification number of the parent process (PPID)
    (optional);

  * the command the process is executing;

  * the owner of the process;

  * for all files in use by the process, including the
executing
    text file and the shared libraries it is using:

    * the file descriptor number of the file, if applicable;

    * the file's access mode;

* the file's lock status;

* the file's device numbers;

* the file's inode number;

* the file's size or offset;

* the name of the file system containing the file;

* any available components of the file's path name;

* the names of the file's stream components;

* the file's local and remote network addresses;

* the TLI network (typically UDP) state of the file;

* the TCP state, read queue length, and write queue length
of the file;

* the file's TCP window read and write lengths (Solaris
only);

* other file or dialect-specific values.

Getting Started Quickly
==========

If you want to get started using lsof quickly, or see some examples
of how lsof can be used, consult the 00QUICKSTART file of the lsof
distribution.

The 00QUICKSTART
file won't help you build or install lsof, but it
will cut through the density of the lsof man page, giving you more
readily an idea of what you can do with lsof.

For information on building and installing lsof, consult the 00README
file of the lsof distribution.

Limiting, Filtering, and Selecting Lsof Output
==========

Lsof accepts options to limit, filter, and select its output.
These are the possible criteria:

* Process ID (PID) number -- to list the open files for a given process;

* Process Group ID (PGID) -- to list the open files for all the processes of a given process group;

* User ID number or login name -- to list the open files for all the processes of a given user;

* Internet address -- to list the open files using a given Internet address (host name), protocol, or port (number or name); or to list all open Internet files;

* command name;

* file descriptor name or number;

* list all open NFS files;

* list all open Unix domain socket files;

* list all uses of a specific file;

* list all open files on a file system.

Selection options are normally ORed -- i.e., an open file meeting any of the criteria is listed. The selection options may be ANDed so that an open file will be listed only if it meets all the criteria.

In the absence of any selection criteria, lsof lists files open to all processes.

Parsing Lsof Output with Another Program
==========

The lsof -F option directs it to produce "field" output that can easily be parsed by another program. The lsof distribution contains sample awk, perl 4, and perl 5 scripts in its scripts subdirectory that show how to post-process field output.

Repeat Mode
==========

Lsof can be directed to produce output, delay for a specified time,

then repeat the output, cycling until stopped by an interrupt or
quit signal. This mode is useful for monitoring the status
 of some
file operation -- e.g., an ftp transfer or a tape backup operation.

Repeat mode is more efficient when combined with lsof's selection
options, since they limit lsof overhead.

It's possible to use lsof's field output options to supply repeat
mode output to another process for its manipulation. The scripts
subdirectory of the lsof distribution has sample Perl scripts
showing how to consume lsof repeat mode output from a pipe.

Distribution Restrictions
==========

Lsof may be used and distributed freely, subject to these limitations:

1. Neither the author nor Purdue University is responsible for
  any consequences of the use of this software.

2. The origin of this software must not be misrepresented, either
  by explicit claim or by omission. Credit to the author and
  Purdue University must appear in documentation and sources.

3. Altered versions must be plainly marked as such, and must not
  be misrepresented as being the original software.

4. This
 notice may not be removed from or altered in the lsof source
  files.

Cautions
========

Lsof is a tool that is closely tied to the Unix operating system
version. It uses header files that describe kernel structures and
reads kernel structures that typically change from OS version to
OS version.

DON'T TRY TO USE AN LSOF BINARY, COMPILED FOR ONE UNIX OS VERSION,
ON ANOTHER.

On some Unix dialects, notably SunOS and Solaris, lsof versions
may be even more restricted by architecture type. An lsof binary,
compiled for SunOS 4.1.3 on a sun4c machine, for example, won't

work on a sun4m machine.

AN LSOF BINARY, COMPILED FOR ONE SOLARIS 1.X ARCHITECTURE, ISN'T GUARANTEED TO WORK ON A DIFFERENT SOLARIS 1.X ARCHITECTURE.

Distribution Contents
==========

The lsof distribution is checked for completeness when it is constructed and by the Inventory script when you run the Configure script. (See The Inventory Script section of the 00README file of this distribution.)

Lsof is
organized in these parts:

* The main lsof directory, containing common sources, configuration and setup scripts and three subdirectories: dialects/, lib/, and scripts/.

  Lsof is compiled in the main lsof directory after configuration. The selected dialect sources are copied or linked from the specified subdirectory. (Symbolic linking is the standard method.)

  Common lsof definitions may be found in lsof.h; common function prototypes, proto.h; and common storage, store.c.

* The dialects/ subdirectory contains subdirectories with sources specific to UNIX dialect implementations -- e.g., the dialects/sun/ subdirectory contains sources for the SunOS (Solaris 1.x) and Solaris (2.x) implementations of lsof. The dialects subdirectories also contain Makefiles and scripts for assisting dialect source configuration.

  Dialect configuration definitions may be found in dlsof.h; other
dialect definitions, dlsof.h; dialect prototypes, dproto.h; and dialect storage, dstore.c.

* The lib/ subdirectory contains sources for common lsof functions. Not all dialects use the functions -- some have their own versions of them. The lib/ functions are enabled and customized with #define's in the dialect machine.h header files.

* The scripts/ subdirectory contains sample scripts for

processing lsof field (-F) output. The scripts are written
in AWK, Perl 4, and Perl 5.

The 00PORTING file of the lsof distribution has more information
on lsof components, configuration, and construction.

Warranty
========

Lsof is provided as-is without any warranty of any kind, either
expressed or implied, including, but not limited to, the implied
warranties of merchantability and fitness for a particular purpose.
The entire risk as to the quality and performance of lsof is with
you. Should lsof prove defective, you assume the cost
of all
necessary servicing, repair, or correction.

Bug Reports
===========

Now that the obligatory disclaimer is out of the way, let me hasten
to add that I accept lsof bug reports and try hard to respond to
them. I will also consider and discuss requests for new features,
ports to new dialects, or ports to new OS versions.

PLEASE DON'T SEND A BUG REPORT ABOUT LSOF TO THE UNIX DIALECT
VENDOR.

At worst such a bug report will confuse the vendor; at best, the
vendor will forward the bug report to me.

Please send all bug reports, requests, etc. to me via email at
<abe@purdue.edu>.

The lsof-l Mailing List
=======================

Information about lsof, including notices about the availability
of new revisions, may be found in mailings of the lsof-l listserv.
For more information about it, including instructions on how to
subscribe, read the 00LSOF-L file of the lsof distribution.

Version 3 Release Notes
=======================

See 00DIST in the last lsof 3 revision 3.88, for
 its complete
set of release notes. Lsof revision 3.88 may be found at:

 ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/OLD

3.0 May 24, 1994
  This is the first official release of lsof 3.

...

3.88 February 17, 1997

  +====================================+
  | This is the last version 3 revision. |
  +====================================+

  Added documentation files -- 00.README.FIRST[_<version>]
  and 00RELEASE.SUMMARY_<version> -- to the distribution.

What's new in Version 4
=======================

The main goal of version 4 was to eliminate the confusing common/
fragment source file technique. Changing the version number also
provided an opportunity to restart the numbering, which at 3.88
had risen to a large value.

The sources that appeared in the dialects/common subdirectory of
version 3 in fragment files have been incorporated into the version
4 liblsof.a library as *.c files. This results in significant
changes to many source files, scripts, and Makefiles of
 all dialect
versions. It allows elimination of some source files -- ddev.c,
dfile.c, dmnt.c -- for dialects now obtaining functions from
liblsof.a that formerly came from making dialect source files by
combining fragment files.

The version 4 liblsof.a sources are stored in the lib/ subdirectory
of the main lsof directory. The liblsof.a functions are activated
and conditioned in their source files by values #define'd in the
dialect dlsof.h and machine.h header files.

Dialects that provide a private version of a library function refrain
from #define'ing the symbol that would activate the library function
code.

Version 4 Release Notes
=======================

4.0 February 24, 1997

 +====================================+
 | This is the first lsof 4 revision. |
 +====================================+

 Reorganized sources: eliminated code fragment files
 and created a library in their place. Modified or
 deleted many dialect source and header files.
 Changed documentation accordingly.

 Added
a warning to sgi/Makefile and 00FAQ that advises
 against using the IRIX C compiler -n32 option when
 compiling lsof. Thanks go to Peter Ilieve
 <peter@memex.co.uk> for bringing this to my attention.

 Dropped IRIX 5.2 in mid-stream, because my 5.2 test
 system was upgraded to 5.3.

4.01 March 3, 1997
 Added TFS support for Pyramid dialects.

 Added test to Configure and to the IRIX dnode.c
 for the different cnode struct that appears in
 <cachefs/cachefs_fs.h> on the 6.2 IMPACT distribution.
 Heddy Boubaker <boubaker@amfou.cenatls.cena.dgac.fr>
 alerted me to the cnode change and helped test this
 lsof adjustment.

 Shut down the lsof child process before doing a -r
 sleep(). A comment from Dan Mercer <dam@mmm.com>
 prompted this.

4.02 March 21, 1997

 Based on a report from Pasi Kaara <Pasi.Kaara@atk.tpo.fi>,
 disabled HP-UX CCIT support in lsof for HP-UX
 versions 10 and above. Pasi's report also led to
 changes in the HP-UX machine.h to
support use of
 gcc to compile lsof for HP-UX 10.20 and warnings
 against using `cc -Aa` or `gcc -ansi` to compile

lsof under HP-UX 10.x.

With help from Richard Allen <ra@hp.is> taught
HP-UX 10.x lsof to name file systems better by
using the virtual file system device number. Elias
Halldor Agustsson <elias@rhi.hi.is> provided a test
system.

Changed NEXTSTEP and UNIXWARE Makefiles to use
safer quoting when generating version.h. The change
was suggested by Bob Farmer <ucs_brf@unx1.shsu.edu>.

Added SHELL=/bin/sh string to all Makefiles.

Added support for Linux 2.1.28 on a test system,
kindly provided by Jonathan Sergent <sergent@purdue.edu>.
Configure tests the Linux 2.1.x's C library lseek()
function for proper handling of kernel offsets.
If lseek() appears suspect, Configure activates
the use of a private lseek() function. Changed
the private nlist() function to nlist_private()
and taught it to use the query_module() syscall in
place of the
deprecated get_kernel_syms() one.
Added rudimentary AX.25 support for Pierfrancesco
Caci <ik5pvx@infogroup.it> who helped test it.
Updated the old get_kernel_syms() code to recognize
and skip module name entries.

Prompted by Marty Leisner <leisner@sdsp.mc.xerox.com>,
eased the requirement that service name lookup for
the -i option be accompanied by a protocol name. The
name is not needed if both TCP and UDP names yield the
same port number.

Added xusers.awk script from Dan Mercer <damercer@mmm.com>
to the distribution scripts/ subdirectory.

Changed Configure script to use LSOF_VERS for all
UNIX dialect version numbers and to pass LSOF_VERS
to the dialect Mksrc functions. Also added the
ability for a dialect stanza to declare a different
dialect Makefile source. Modified dialect Mksrc
files -- e.g., linux and sun -- accordingly.

Added support for BSD/OS 3.0 with help from Jim
Reid <jim@mpn.cp.philips.com>. Terry Kennedy
<TERRY@spcvxa.spc.edu>

kindly provided a test
system. During the port corrected a bug that
prevented proper handling of revoked files.

4.03 April 7, 1997
At the suggestion of Dan Mercer <damercer@mmm.com>,
made HP-UX building of lsof aware of differences
between the HP-UX bundled and unbundled C compilers.

Added the ability for the lsof builder to define the
default warning message issuance state. By default the
issuance of warning messages is disabled; defining
WARNINGSTATE in machine.h disables it. The Customize
script was updated to handle WARNINGSTATE. Dan Mercer
suggested this.

Eliminated compiler complaint about improperly cast
get_Nl_value() argument in ncache_load() in lib/rnch.c.

Corrected zeromem() argument error in SCO dproc.c.
Sped up parent directory cache lookup slightly.

Updated for PTX 4.4, including additional VxFS (EFS)
file system support.

4.04 April 17, 1997
At the suggestion of Bela Lubkin <belal@sco.COM>
changed device cache handling
to be more tolerant
of a device cache file whose [cm]times are older
than the ones on /dev or /devices. The change
required adding information to Solaris device cache
file clone lines, so the first time lsof 4.04 is
run under Solaris it will complain about a bad
cached clone device in a previous device cache
file, then regenerate it.

Added boot file path detection for SCO OSR 5 and
above, based on information supplied by Bela.

Fixed two bugs in DEC OSF/1 lsof -- an error in
reporting locks and a missing continue statement
in readdev() after a failure to open a directory.
Jan Ole Suhr <josuhr@informatik.tu-clausthal.de>
reported the second bug and supplied a fix.

Fixed XFS problems with IRIX 6.2 by abandoning the
idea that SGI will distribute XFS header files and

defining an lsof-private xfs_inode structure. John
Paul Morrison <John.Paul.Morrison@MultiActive.com>
helped develop and test the 5.3 definition. John
R. Vanderpool <fish@daacdev1.gsfc.nasa.gov>
helped
develop and test the 6.2 definition.

Remove obsolete comments about common/*.frag files.

Updated Linux lsof for Linux version 2.1.35.

4.04 April 18, 1997
Supplement Regenerated the 4.04 distribution to correct a non-
device-cache #define misplacement in the Solaris and
SunOS dlsof.h. Alexandre Oliva <oliva@dcc.unicamp.br>
reported the problem.

4.05 April 24, 1997
Corrected an error in 00DCACHE.

Made sure SCO /etc/ps/booted.systems is closed.

Based on an observation by Bela Lubkin <belal@sco.COM>
that the lsof child had needless file descriptors
open, closed all but the open pipes between the
lsof parent and child.

Decommissioned CDC EP/IX support; I no longer have a
test system.

Based on a suggestion from Patrick Connor
<connor@phreak.csd.sgi.com>, added -xansi to CFLAGS
for IRIX 5.3 and 6.[234].

Also at Patrick's suggestion changed Configure to
propagate exact SunOS 4.1.x version to the main
and library Makefiles.
This allowed the sunos413
and sunos413cc Configure abbreviations to be
shortened to sunos and sunoscc.

Updated obsolete argument uses (-H changed to -n)
in count_pf.perl* and watch_a_file.perl scripts.

Adjusted Solaris 2.6 lsof for Beta_Update with tips
from Casper Dik <casper@holland.Sun.COM>.

Fixed a Solaris 2.4 TCP address reporting bug.

4.06 April 30, 1997
Added a step to the Makefile clean rules that does a make clean in the lib subdirectory; suggested by Casper Dik <casper@holland.Sun.COM>. (Configure's -clean argument already did this.)

Fixed an incorrect awk argument in the sunos*) Configure stanza, reported by Alexandre Oliva <oliva@dcc.unicamp.br>.

Added CD9660 (aka ISO) file system support to FreeBSD, NetBSD, and OpenBSD with mods and help from Kenneth Stailey <kstailey@disclosure.com>. (BSDI already had CD9660 support.) While at it, added file descriptor system support to BSDI and FreeBSD.

Added /kern file system support to OpenBSD. The support wasn't extended to BSDI, FreeBSD, or NetBSD, because it requires Kenneth Stailey's changes to /sys/miscfs/kernfs/kernfs.h.

Updated IRIX 6.3 support after getting access to a test system, provided by John Paul Morrison <John.Paul.Morrison@MultiActive.com>. Improved the handling of IRIX 5.1 and greater FIFOs.

4.07 May 12, 1997
Based on AIX problem reports from David Capshaw <David.Capshaw@SEMATECH.Org>, changed the aix* Configure script stanza to avoid -bnolibpath for gcc (which the GNU loader doesn't grok) and AIX below 4.1.4 (where -bnolibpath hasn't been tested or is known to be unimplemented), and to refuse to use gcc for compiling lsof in AIX versions below 4.1 (because of possible structure alignment problems). Updated 00FAQ appropriately.

Added OpenBSD support for EXT2FS. This support has yet to be tested.

Tested lsof under OpenBSD 2.1.

Activated /kern file system support for NetBSD when Configure senses

that /sys/miscfs/kernfs/kernfs.h
defines the kern_target structure. This support
has not been tested under NetBSD, although it has
been tested under OpenBSD.

Made some simple changes to the BSDI machine.h,
suggested by Jeffrey C. Honig <jch@bsdi.com>.

Improved handling of alternate dialect Configure
abbreviations -- aix and aixgcc, hpux and hpuxgcc,
solaris and solariscc, and sunos and sunoscc.

4.08 May 23, 1997
Cleaned up dialect Makefile's, staring with a suggestion
from Christopher Schanzle <chris@cam.nist.gov>.

Improved Configure's -clean processing.

Corrected bugs in Solaris lock reporting.

Changed NetBSD Configure stanza to put -I/usr/include
before -I/sys.

4.09 June 1, 1997
Adjusted for latest FreeBSD 3.0 release. This
required adding a new kernel name cache module for
reading BSD-form hashed kernel name cache entries,
rnmh.c, to the lsof library, and adding a #define
to each machine.h to select it.

Activated rnmh.c for BSDI
2.1, BSDI 3.0, NetBSD
1.2, and OpenBSD 2.1.

4.10 June 8, 1997
Adjusted for Linux 2.1.x (x > 35) kernels with
hashed task structure pointers. Marty Leisner
<leisner@sdsp.mc.xerox.com> and Jonathan Sergent
<sergent@io.com> tested the adjustment.

Replaced readdev() stat() calls with lstat() to
reduce device table and cache entries with the same
device number and inode values. Added code to
remove all remaining duplicates. This fixes a
Linux problem reported by Jonathan Sergent and
makes device node name output predictable.

Corrected a bug in UnixWare stream file handling

that prevented searching for the stream file by
its associated character device name.

Added Pyramid code to determine Reliant UNIX clone
major device number differently from that of DC/OSx.

4.11 June 12, 1997
Changed Configure to sense that the PTX inp_[fl]addr
members of the inpcb structure of <netinet/in_pcb.h>
have a struct type and set HASINADDRSTR for use in
PTX dnode.c
and dsock.c tests.

Changed PTX version 4.1.4 tests to use 4.1.3 instead.
Carson Wilson <carson@mcs.com> reported the need
to do this and tested the change.

Fixed a block device table indexing bug in lib/rdev.c,
reported by Carson Wilson. The same bug was squashed
in pyramid/ddev.c.

Added code to the Pyramid Reliant UNIX kread()
function to compensate for an address boundary
error in the kernel's /dev/kmem driver.

Verified that lsof compiles and works under AIX
4.2.1. Added an AIX test for the presence of NFS
header files, defined HAS_NFS and adjusted AIX
dialect sources accordingly.

Based on a suggestion from Gaylord Holder
<holder@phy.ucsf.EDU>, added DEC OSF/1 code to
auto-detect the booted file, whence kernel symbol
addresses are obtained.

4.12 June 24, 1997
Corrected a device number sign extension problem
in the reading and writing of device cache file.
The problem was reported by Bela Lubkin <belal@sco.com>
and he suggested
a fix.

Fixed an SCO stream device lookup problem. The
report and solution came from Bela Lubkin

Enhanced the Configure script to enable cross-
configuration of lsof, based on suggestions from
Marty Leisner <leisner@sdsp.mc.xerox.com>. A new

documentation file, 00XCONFIG, describes the process.

Made Pyramid OBJFS support conditional on the
presence of supporting header files. Corrected
the Pyramid MkKernOpts script so it generates the
necessary -D's for the Nile/Jolt architecture.
Richard Coley <rcoley@pyra.co.uk> helped.

Added another IRIX xfs_inode variant for 6.2, 32
bits, no XFS rollup patch.

Tested under UnixWare 2.1.2.

4.13 July 9, 1997
Taught Pyramid lsof to grok ttyfs vnodes with help
from Richard Coley <rcoley@pyra.co.uk>. Fixed some
minor bugs in Pyramid FIFO reporting. Eliminated
use of the Pyramid UCB compatibility library at
Richard's suggestion.

Eliminated reporting of "strange" inode numbers
for SCO OSR 3.2v5.0.x HPPS
files with help from
Bela Lubkin <belal@sco.com>

Modified port to service name lookup to use a small
number of getservbyport() calls before reading the
entire map with getservent(). Changed port reporting
to represent a zero as `*' to be consistent with
other prt number reporting tools like netstat.
Casper Dik <casper@holland.Sun.COM> suggested these
changes -- the getserv*() one to improve performance
for large NIS service name maps.

Changed all readdev() functions to make the absence
of block devices a warning instead of a fatal error
after Brian Redman <ber@ms.com> reported his IRIX
6.4 system had no block devices. (It really did
have block devices, but readdev()'s lstat() use
caused it to miss them in a directory symbolically
linked from /dev/dsk->/hw/disk.) Fixed Brian's
real problem by changing the IRIX readdev() to use
stat() on /dev nodes if a Configure test shows /hw
is readable. Extended the potential to do the same
to all readdev()
functions.

For consistency and convenience changed some

Configure abbreviations and dialect subdirectory names: "decosf" abbreviation and "osf" dialect subdirectory name to "du"; "netbsd" dialect subdirectory name to "n+obsd"; "next3" abbreviation and "next" dialect subdirectory name to "ns"; "sco" abbreviation and dialect subdirectory name to "osr"; "sgi" dialect subdirectory name to "irix"; and "unixware" abbreviation and dialect subdirectory name to "uw".

Added #if/#endif clauses to the AIX rmdupdev() function to avoid clone processing for AIX versions less than 4.1.4. The problem was reported by Toralf Foerster <toralf.foerster@io-warnemuende.de>, who supplied corrective code.

Added support for new style NetBSD inode with i_ffs and i_e2fs union members.

Improved Configure and 00FAQ information on Digital UNIX configuration subdirectory with suggestions from Brad Krebs <brad@EECS.Berkeley.EDU>.

4.14 July 22, 1997

Reorganized the Solaris handling of the inode structure header file, ufs_inode.h, to eliminate VxFS structure definition conflicts for Solaris 2.4, based on information from Greg Earle <earle@netbsd4me.jpl.nasa.gov>.

Cleaned up some typos and confusion in Configure's help output, based on comments from Bela Lubkin <belal@sco.com>

Added a 00DIALECTS file, containing UNIX dialect version numbers, that can be used by Configure and the man page.

4.15 August 15, 1997

Aligned `Configure -help` output better. Removed Configure's 2.6 Beta test adjustments.

Added improved Solaris VxFS configuration and handling, based on information from Greg Earle <earle@netbsd4me.jpl.nasa.gov>.

Added socket state -- TCO or TPI -- for socket

files at the suggestion of Ian Fitchet
<I.D.Fitchet@ftel.co.uk>.

4.16 September 25, 1997
Added reporting of TCP/TPI queue lengths and window sizes ala netstat to NAME column. Added -T option to select or de-select TCP/TPI info reporting. (Window
sizes are only reported for Solaris.)
Fixed anomalies along the way in SIZE/OFF processing for some dialects.

Fixed service name argument processor to allow minus signs as part of the name. Consequently this disallows names with embedded minus signs from being specified as the start of a range.

Added 00FAQ entries explaining why lsof won't find a file being edited with vi, why window sizes aren't reported for all dialects, and what the "no more information" message means.

Forced Pyramid CC to be /usr/ccs/bin/cc to avoid accidental use of the BSD variant in /usr/ucb/cc.

Added support for Linux glibc2, including a Configure test; cross-Configure support (00XCONFIG); and much unfortunate and risky sleight-of-hand in lsof Linux dialect header and source files, forced upon lsof by incompatibilities between Linux kernel and glibc2 header files.

Included in scripts/identd.perl5 a Perl 5 implementation of an identd server, using lsof, provided
by Kapil
Chowksey <kchowksey@hss.hns.com>.

Updated IRIX 6.4 xfs_inode guess.

4.17 October 14, 1997
Added -V option for verbose search result reporting. Verbose reports are prepared for failure to locate file names, command names, Internet addresses or files, login names, NFS files, PIDs, PGIDs, and UIDs.

Augmented Linux NFS file test to cope with kernels whose NFS code is in a loadable module. Need for the test was pointed out by Jonathan Sergent

<sergent@csociety.ecn.purdue.edu>. The change
required that Linux have private dmnt.c source,

Completed a Linux 2.1.57 port on a system provided
by Jonathan Sergent.

4.18 October 25, 1997
Eliminated memory leaks in alloc_lfile(), lkup_port(),
and NEXTSTEP's process_text() function.

Added recognition of OpenBSD 2.2 in Configure,
supplied by Kenneth Stailey <kstailey@disclosure.com>.

Consolidated print_file() functions to use the one
in lib/prtf.c. Made it configurable and changed
it to
size print columns dynamically.

!!! WARNING !!!

WITH DYNAMICALLY SIZED PRINT COLUMNS LSOF 4.18
PRODUCES OUTPUT SIGNIFICANTLY DIFFERENT FROM THAT
OF PREVIOUS REVISIONS. LINES ARE GENERALLY SHORTER
AND THERE IS GENERALLY LESS BLANK SPACE BETWEEN
COLUMNS AND THE ITEMS IN THEM. THERE ARE NO LONGER
ANY SPACES BETWEEN DEVICE NUMBER ELEMENTS, ONLY
COMMAS.

!!! WARNING !!!

Added special types and print specification modifiers
for file size and offset to handle UNIX dialects
with 64 bit sizes and offsets. Paul Eggert
<eggert@twinsun.com> reported the need for this
addition.

With Paul Eggert's help picked lint from the lsof
library, the main level lsof sources, and the Sun
dialect sources.

Added documentation, including the file 00LSOF-L,
about the lsof-l LISTSERV.

Added support for Reliant UNIX on the RM600. Bob
Passarella <rmpassar@pyramid.com> supplied the
changes. Kevin Smith <kevin@pyramid.com> helped
arrange test systems. While incorporating

Bob's
changes, modified lib/rnch.c to handle kernel ncache
structs whose name is accessed via a char *, rather
than in a char array.

Changed #include order of <sys/socketvar.h> for
Solaris 2.x. W. Richard Stevens <rstevens@kohala.com>
pointed out the need to do this.

4.19 October 30, 1997
Changed Pyramid Reliant RM600 proc scan to skip
SSYS (p_flag) processes, since they don't seem to
have a readable u_cdir vnode.

Enabled Pyramid Reliant UNIX kread() work-around
for DC/OSx, too, since its read(/dev/kmem) kernel
driver seems to share the page boundary bug this
work-around circumvents.

Changed SzOffFtm_d and SzOffFtm_dv (new formats at
4.18 to print size and offset) from signed to
unsigned. Setting them signed at 4.18 was an
oversight.

Plugged a memory leak that caused the loss of 130
bytes per repeat-mode pass. Fixed it with a simple
work-around in main(). Lionel Cons <Lionel.Cons@cern.ch>
reported the leak.

4.20 November 11,
1997
Tested under BSDI 3.1.

Added support for Reliant UNIX Mesh IPC files with
help from Billy Ho <bho@pyramid.com>.

Added support to Digital UNIX lsof that uses the
libmsfs tag_to_path() function (when it exists) to
look up AdvFS path names. The idea and sample code
came from Dean Brock <brock@cs.unca.edu>. Converted
Dean's code into more general purpose support for
private name cache lookups via the HASPRIVNMCACHE
#define in the dialect machine.h file and code
conditional on it in the printname() function.

Taught Digital UNIX lsof to recognize NFS3 file
systems. Corrected Digital UNIX lsof DEVICE column
alignment.

4.21 December 1, 1997
Squashed bug, introduced at revision 4.18, that
resulted in double reporting of each selected PID
when terse mode (-t) was specified.

Corrected minor bug, also introduced at 4.18, that
might cause an extra print_proc() pass when one
PID has been specified.

Added -R to lsof options in scripts/idrlogin.perl*.
The
option should have been there -- it was supposed
to be mandatory for PGID reporting -- but a bug,
corrected in revision 4.18, previously made -R
unnecessary.

Enabled configuring for BSDI BSD/OS 4.0 per a
suggestion from Jeff Honig <jch@bsdi.com>.

Enabled replacement of scoff_t with off64_t (scoff_t
is used to type r_size and r_localsize in the rnode
struct) for IRIX 5.3 systems that have the NFS
kernel rollup patch (1477). This compensates for
SGI's failure to distribute an updated <sys/fs/rnode.h>
with their patch.

Validated under Linux 2.0.3[12], Linux 2.1.64, and
NetBSD 1.3.

Added FreeBSD root directory reporting, courtesy
of Dan Nelson <dnelson@emsphone.com>.

4.22 December 15, 1997
Made adjustments for Linux 2.1.7[02].

Improved NAME information for Linux UNIX domain
sockets.

Added option +|-M to control the reporting of
portmapper registration information in square
brackets after the TCP or UDP port or service name.
Kenneth
Stailey <kstailey@disclosure.com> suggested
the feature and provided sample code from OpenBSD.
Reporting is disabled by default in the distribution
and may be enabled with +M; if lsof is compiled
with HASPMAPENABLED (e.g., from machine.h), reporting

will be enabled by default and can be disabled with
-M.

Changed the -w option to +|-w to match the syntax
of the +|-M option and to eliminate any options
that flip meaning when a symbol is defined at
compile time. For both +|-M and +|-w, specifying
`-' when the default state is disabled or specifying
`+' when the default state is enabled causes no
problems.

!!!WARNING The -w option has changed in lsof 4.22. WARNING!!!

Made the +|- prefix legal for most options, but
didn't document it in the man page or help panel.
Most options that disable something -- e.g., -b,
-C, -n, -P -- now disable when the prefix is `-'
and enable when it is `+'. Since the states these
options disable are enabled
by default, I chose to
avoid documentation complexity and confusion by
not mentioning that they can be used with the `+'
prefix.

Condensed the help panel.

Made sure Digital UNIX Configure stanza puts normal
include path (e.g., /usr/include) before system
include paths.

Added IPX socket information reporting to Linux
with help from Jonathan Sergent <sergent@purdue.edu>.

4.23 January 16, 1998
Fixed conflict arising from the quondam replacement
of the Sun Solaris <netdb.h> with a BIND/BSD version.

With help from Jonathan Sergent <sergent@purdue.edu>
developed a /proc file system based Linux lsof.
It needs some Linux 2.1.x release to work -- I'm
not sure which, but I tested under 2.1.72, 2.1.76,
and 2.1.79. The Configure script selects special
sources for this lsof, so the full lsof distribution
now contains both /dev/kmem and /proc based sources
for Linux lsof. An optional kernel mod, written
by Jonathan, enhances the /proc-based lsof ability
to

recognize IPX socket files. Reorganized and
augmented the Linux sections in 00FAQ to explain
the two types of Linux lsof.

Defined DOSTAT_FUNCTION for dostat() in misc.c to
select the function, stat() or lstat(), it will use.
DOSTAT_FUNCTION is normally undefined, defaults to
lstat(), and is only defined for the /proc-based
Linux lsof in its dlsof.h.

Made conditional on the presence of IRIX 6.4 XFS
rollup patch #6 an XFS node change introduced in
revision 4.16. Identified the patch with help
from John R. Vanderpool <fish@daacdev1.gsfc.nasa.gov>.

Added NFS node compensation for NetBSD 1.3. The
code and suggestion for it was supplied by Jean-Luc
Richier <richier@imag.fr>.

Added diagnostic messages to the /dev/kmem-based
Linux Mksrc script to report errors during the
construction of the kernel name cache header file,
kncache.h. Added 00FAQ information on kncache.h.

Added a new Linux test host, running 2.0.33 and
GlibC, provided by
Steve Logue <stevel@mail.cdsnet.net>.

Ported to PTX 4.1.3 and 4.4.2. Adjusted lib/rnch.c
for 4.4.2 to allow customization f additional ncache
struct element names.

4.24 January 28, 1998
Changed /proc-based Linux lsof offset test to use "/"
instead of "/etc/passwd".

To assist Jim Mintha <jim@geog.ubc.ca> with the
packaging of lsof for Debian Linux, added a
DEBIAN_LINUX_LSOF #define to trigger the activation
of special system map file location code in the
/dev/kmem-based dproc.c.

Applied modification to dialects/bsdi/dlsof.h from
Ingimar Robertson <iar@skyrr.is>, enabling lsof to
compile for BSDI BSD/OS 2.0.

Corrected a documentation error in 00DCACHE, pointed
out by Thomas Anders <anders@hmi.de>. The error was

created when the -V option was added at lsof 4.17.

Made IRIX 5.3 through 6.3 lsof aware of IRIX SCSI
tape devices (e.g., /dev/tape). Dave Olson of SGI
and Randolph J. Herber of FNAL provided valuable
advice, and Igor Schein <ischein@air-boston.com>
helped
test.

Added a machine.h symbol (NEVER_HASDCACHE) that
prevents Customize from offering to change HASDCACHE.
The symbol may appear anywhere in machine.h --
e.g., in a comment. Included the symbol in a
comment of the HASDCACHE section of the /proc-based
Linux lsof machine.h, and accompanied it with
warnings against #define'ing HASDCACHE. Did the
same thing for WARNDEVACCESS (NEVER_WARNDEVACCESS
is the suppressant.)

4.25 February 7, 1998
Corrected an IRIX mis-cast of file offset (position).
Igor Schein <ischein@air-boston.com> reported the
problem. This was offered as a patch to 4.24.
Picked some lint Igor pointed out.

At Igor's suggestion added an optional decimal
digit size argument to the -o option. This argument
specifies how many file offset decimal digits can
follow "0t" before lsof switches to a "0x..." form.
The argument size specification doesn't count the
two characters of the "0t". A size of 0 means
unlimited.
The default is OFFDECDIG (8), preserving
compatibility with existing lsof output; it can be
changed by the lsof builder. When size is specified
with -o it does not force offset display; -o without
a size still must be used to do that.

Added an IRIX 6.2, 32 bit system, XFS node patch,
courtesy of Ulrich Bernhard <rzubu@rzu.unizh.ch>.

For my own convenience enabled Configure to use
/usr/local/bin/gcc for NEXTSTEP. This allows
circumvention of a gcc 2.8.0 ranlib problem on
my test 3.1 `040 cube.

Added flags recommended by the RISC/os and Ultrix
compilers for the updated (and longer) main.c.

Updated FreeBSD cd9660_node.h Configure test.

4.26 February 17, 1998

Added shared process group processing for IRIX 5.3, and IRIX 6.1 and above, based on investigation of a bug report from Igor Schein <ischein@air-boston.com>. Igor helped test this addition.

Improved handling of file system name arguments. It's now done in a manner similar to fuser. The -f argument forces path names to be considered as simple files, rather than as file system names. The +f flag forces them to be considered as file system names. Normally path arguments are considered file system names when they match a mounted-on directory in the system's mount table, or when they match a mounted file system's block device. Igor Schein helped test this change.

Igor also suggests that the proper compilation of the IRIX 6.4 proc structure after patch 2536 has been installed may need -DPIOMEMOPS. So lsof's MkKernOpts script was updated to propagate that option from CCOPTS in /var/sysgen/system/irix.sm, even though patch 2536 doesn't add -DPIOMEMOPS to it. Added a 00FAQ item on this patch.

Added a fatal warning message about names forced to be file system names (with +f) that have no match in the mount table.

Improved the -V message for files and file systems for which no open files were found. Added reporting of /proc file and file system search failures.

Did some code reorganization to combine the multiple ck_file_arg() functions into one. Moved the new function from the library to the top level and put it in arg.c; moved the usage function from arg.c to a new top-level source file, usage.c, to balance top-level source file size. The new usage.c depends on version.h; arg.c no longer does.

Added flag recommended by the DU compiler for the updated (and longer) main.c.

4.27 March 6, 1998

At the request of Igor Schein <ischein@air-boston.com> added a conditional repeat mode option, using the `+' prefix to the `r' option. +r operates as does -r with the exception that it exits the first time no open files have been listed during a cycle. The exit code will be zero when any open files have been listed; one, if none were ever listed.

Ported lsof to HP-UX 11.0 with the help of Richard Allen. This port hasn't been tested on a 64 bit kernel; I'm sure it won't work there without more mods. It may not work on PA 2 architectures; I've only tested it under PA 1 and a separate, busy tester reported PA 2 problems that I've been unable to investigate.

In anticipation of getting access to a 64 bit HP-UX kernel and the pending start of the Solaris 2.7 Beta test (It will have 64 bit kernel addressing.), started adding support for 64 bit kernel pointers. This includes: ubiquitous use of the KA_T cast for kernel pointers; a format to print them, KA_T_FMT_X; a function to print them, print_kptr(); and modifications to most kernel-related functions -- e.g., process_file(), process_node(), process_socket(), readvfs() -- to process kernel addresses as KA_T types.

Fixed minor bug in handling path name arguments that end with a `/'.

Removed support for RISC/os; its test system is no longer available.

Made modifications to insure that lsof output doesn't contain non-printable characters. All such characters are now printed in the printf form "\x%02x". Several new common functions were installed in misc.c to support "safe" printing. This second major modification in 4.27 to common and dialect code could have introduced bugs not yet detected.

4.28 March 10, 1998

Refined unprintable format to use \b, \f, \r, \n, \t, and ^* (for CTRL) forms. Corrected omission of safestrprt() use for field output command name. These changes were offered as patches to 4.27.

Made space an unprintable character (\x20) in the COMMAND column; printable elsewhere, including the NAME column, field output, and error messages.

Made sure FD column is parseable as a single entity -- i.e., has no embedded space. Thus, if the access mode is unknown but there is a known lock mode, (a very rare case) the access mode will be printed as `-'.

Picked lint with gcc 2.8.0 under Solaris 2.6.

With the help of Dave Olson of SGI identified a proc struct element that should have been added to <sys/proc.h> by IRIX 6.4 patch 2536. Added a work-around for it to the lsof Configure script. Igor Schein <ischein@air-boston.com> identified that the patch caused a proc structure length complaint from lsof. Removed an obsolete 00FAQ item on the patch, installed at lsof 4.26, explaining that no solution was yet available.

Added a 00FAQ item on how BIND installs its own header files, including <netdb.h>, which may cause the rpcent struct definition to vanish. Solaris has an automatic lsof work-around, but that hasn't been (and probably can't be) propagated to all dialects supported by lsof. The 00FAQ item recommends re-installation of the vendor header files that BIND has replaced. (Others include <rpcent.h>, <sys/bitypes.h>, and <sys/ctypes.h>.)

Made AIX AFS fixes.

4.29 March 26, 1998

Corrected bug in Internet address matching. The matching formerly stopped if the foreign address matched, thus failing to check the local address for a match. That led to a possible false "Internet address not located" warning (i.e., in response to -V) about the local address, when both foreign and

local addresses were specified with -i. This correction was offered as a patch to 4.28.

Changed readmnt() usage in an attempt to defer mount readlink() and stat() delays until they are necessary.

Corrected two bugs in the Digital UNIX readdev() function. Made the correction available as a patch to 4.28 and regenerated the 4.28 DU binaries.

Added a missing argument to a print-kptr() call in the HP-UX dsock.c. The missing argument causes a fatal gcc error. The problem was reported by Eyal Shaynis <eyal.shaynis@telrad.co.il>. The fix was offered as a 4.28 patch.

Adjusted for Digital UNIX 4.0D; the spec_node structure is now defined in <sys/specdev.h>. Kris Chandrasekhar <Kris.Chandrasekhar@digital.com> identified the need for the adjustment.

Incorporated a bug fix from Brian McAllister <mcallister@mit.edu>
to the DU readmnt() function.
This fix was offered as a patch to 4.28.

Added "safe" printing to a SunOS clone device error message.

Corrected bug in tabling of Linux /proc-based lock info.

Corrected bug in handling of SunOS TLI streams. Dan Farmer <zen@trouble.org> reported the problem.

Added a Solaris 2.6 work-around to keep the BIND <sys/bitypes.h> from colliding with the Solaris <sys/int_types.h>.

Strengthened the Configure test for /proc-based Linux lsof, based on a report from Marty Leisner <leisner@sdsp.mc.xerox.com>.

Tested on OpenBSD 2.3.

Made AIX changes that allow use with 3.2.5. The changes were suggested and tested by Brett Hogden

<hogden@rge.com>.

Added Solaris 2.6 AFS support. Disabled reporting of some node numbers for Solaris 2.5 and above open AFS files. The node number computation algorithms used for SunOS 4.1.x and Solaris less than 2.5 no longer always work under Solaris 2.5 and above.

4.30 April 9, 1998

Corrected a pid structure member naming error for UnixWare < 2.1.2. The problem was reported by Richard van Meurs <vanmeurs.anva@atriserv.nl>. He supplied the correction. This was offered as a patch to 4.29.

Had a report from Igor Schein <ischein@air-boston.com> that IRIX 6.4 patch 2839 is another SGI kernel patch, along with 2536, that changes the size of the proc structure in the kernel without changing the proc structure in <sys/proc.h>. Upon further investigation found that the effect of these patches on the proc structure is not consistent. Therefore, dropped the Configure patch test for IRIX 6.4 and made the code in irix/dproc.c slightly more tolerant of proc structure size differences for IRIX 6.4. Igor help test the change.

Corrected Solaris >= 2.5 AFS inode number generation. Craig Everhart <Craig_Everhart@transarc.com> helped find the cause of the problem. This was offered as a patch to 4.29.

Refined the Linux /dev/kmem-based glibc evasion for the timeval structure to make it work with glibc version 2.0.7. This required defining a new global symbol, TIMEVAL_LSOF, default timeval, that the /dev/kmem-based Linux lsof can set to its private glibc timeval name, distinct from the kernel timeval name.

Added support for Alpha to the /dev/kmem-based Linux lsof. Alexandre Oliva <oliva@dcc.unicamp.br> provided a test system. Added an item to 00FAQ about lsof, the Alpha processor, and Linux.

Added a 00FAQ item about lsof year 2000 compliance.

Basically it says lsof is probably compliant,
because its only date or time computations are done
with time_t values, but I haven't done any specific
Y2K validation. I don't have plans to do any.

Added support for UnixWare 7. Chris Daniels
<chrisd@dlpco.com> provided a test system and Don
Draper <dond@sco.COM> provided technical information.
Added BFS and SFS file system support to lsof for
UW 2.1.[12] and 7.

Updated
Solaris VxFS support for VxFS 3.2.1. Greg
Earle <earle@netbsd4me.jpl.nasa.gov> reported the
need for the update. Greg and Roger Klorese
<rogerk@veritas.com> provided technical information.
Scott McClung <mcclung@primenet.com> tested.

Changed IRIX XFS patch detection in anticipation of
learning there are multiple XFS patches for IRIX 6.4
that require different versions of the lsof-invented
xfs_inode structure.

4.31 April 21, 1998
Added a VxFS #if/#endif wrap to a section of the
HP-UX dnode.c that wasn't properly protected. The
problem was reported by Peter Klosky <PKlosky@bdm.com>.
This was offered as a patch to 4.30.

Added support for Solaris 2.7 (first Beta release).
Mike Sullivan <Mike.Sullivan@Eng.Sun.COM> provided
technical advice and helped test. Charles Stephens
<cfs@jurassic.eng.Sun.COM> also helped test.

Fixed bug in /proc-based Linux that caused it to
access /proc/mounts excessively. Marty Leisner
<leisner@sdsp.mc.xerox.com>
provided a syscall
trace that identified the bug. The fix was offered
as a patch to 4.30.

Adjusted the IRIX 6.4 private structure definition
for the XFS node to accommodate patch 2970. Igor
Schein <ischein@air-boston.com> identified the
patch and the required adjustment.

4.32 May 11, 1998
Corrected Solaris 2.7 code for reporting PCFS

(floppy disk) node numbers. Casper Dik <casper@holland.sun.com> supplied the fix. The fix was offered as a patch to 4.31.

Corrected a bug in conditional repeat mode handling pointed out by Igor Schein <ischein@air-boston.com>. This was offered as a patch to 4.31.

Improved reporting of AIX open(/dev/memory device) errors.

Corrected a Solaris < 2.5 KA_T declaration error, pointed out by Robert Kiessling <robert@easynet.de>. Changed KA_T from a #define to a typedef for all dialects to prevent future problems of this kind.

Changed the sample Perl 5 script big_brother.perl5 to report a four digit year from localtime().

Added support for AIX 4.3[.1]. Bill Pemberton <wfp5p@tigger.itc.virginia.edu> provided a test system. Andrew Kephart <akephart@austin.ibm.com> and Tom Weaver <tvweaver@austin.ibm.com> provided technical assistance. Niklas Edmundsson <nikke@ing.umu.se> did 4.3.1 testing.

Added -qmaxmem option to CFLAGs for an AIX compilation with an xlc version 4.x compiler.

Adjusted Linux socket handling for changes in the AX25 members of the sock struct. Richard Green <rtg@tir.com> pointed out the problem. Tested /dev/kmem-based lsof under Linux 2.0.34.

4.33 May 22, 1998

Added generic IPv6 support to common lsof sources and specific IPv6 support to AIX sources. Andrew Kephart <akephart@austin.ibm.com> supplied the additions and helped with testing. Bill Pemberton <wfp5p@tigger.itc.virginia.edu> provided a test system. The modification affected sources for every dialect, whether it supports IPv6 or not, by changing the interfaces to the common Internet address function ent_inaddr().

Added support for the NetBSD UVM virtual memory

system. Paul Kranenburg <pk@cs.few.eur.nl> supplied technical details.

Bracketed HP-UX 11 use of <sys/spinlock.h> with #if/#endif _KERNEL.

Corrected printing of PCB address in DEVICE column for IRIX.

4.34 June 26, 1998

Updated 00FAQ to discuss TCP and UDP ports private to the AIX kernel and 00README to describe how ACLs can be used to give lsof permission to read the kernel memory devices. Add information to 00FAQ and 00README about other OpenBSD architectures where lsof is reported to compile and run. Added section to 00FAQ discussing how an incorrect loader path environment variable value can prevent lsof from loading correctly.

Improved Solaris namefs and doorfs support so that it is now possible to search for an open VDOOR file by the path name of its fattached file system object. Igor Schein <igor@txc.com> requested the ability
to do such a search. Even with the change, lsof can't always identify path names for open VDOOR files.

Also at Igor's request, improved reporting of information on open Solaris VCHR files that share a common vnode, and Solaris UNIX domain socket files.

Corrected print_kptr() argument error in PTX dnode.c, reported by Mark Price <mprice@sequent.com>. Compensated for ncache element naming differences, introduced at PTX 4.4.2; Kurtis D. Rader <krader@sequent.com> reported the problem.

Changed output column title from INODE to NODE to better reflect the column's contents of node IDs for more than just inodes.

Improved Configuration and processing for Solaris AFS. Corrected AIX AFS 3.4 afs_rwlock_t simulation.

Corrected a cast problem with two AIX knlist()

calls, thus quieting an AIX 4.2.1 compiler argument
type warning. Jon Champlin <champlin@us.ibm.com>
reported the problem.

Added support to most dialect versions (exception:
/proc-based
Linux) to warn when the identity of
the kernel where lsof was compiled doesn't match
the running identity. The warning can be suppressed
with -w. Note: determining AIX state requires
calling oslevel, a potentially slow operation.
Jon Champlin <champlin@us.ibm.com> suggested this
addition.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Those using the lsof cross-configuration capability
(see 00XCONFIG), should be aware that the kernel
identity test feature introduces two new basic
cross configuration environment variables, LSOF_ARCH
and LSOF_VSTR.

!!!! WARNING !!!! !!!! WARNING !!!! !!!! WARNING !!!!

Identified a situation where a Solaris UNIX domain
socket name is known and can be searched for by
name; added the necessary code.

4.35 July 17, 1998
Made the kernel identity check an option with the
HASKERNIDCK #define in machine.h. Enabled altering
of HASKERNIDCK with the Customize script. Added
a clause to the help output
that indicates the
build-time HASKERNIDCK status.

Added more information to the NAME column for
Solaris UNIX domain sockets. Made them searchable
by their clone device path name. Igor Schein
<igor@txc.com> requested this.

Completed the HP-UX 11 port with support for its
optional 64 bit kernel. Rich Rauenzahn
<rrauenza@cup.hp.com> provided a test system.
Corrected errors with HP-UX 11 lock reporting and
private kernel structure and type definitions.
Added support for HP-UX NFS3 files.

Limited mount table warnings -- e.g., when -b is used -- to one set per mount point.

Fixed some mount table scanning and usage bugs, including one in Solaris, reported by Kjetil Torgrim Homme <kjetilho@ifi.uio.no>.

4.36 August 4, 1998

Made corrections and additions to IPv6 support and to AF_ROUTE socket handling, supplied by Jean-Luc Richier <Jean-Luc.Richier@imag.fr>. Jean-Luc's additions provide IPv6 support for the Inria IPv6 implementations on FreeBSD and NetBSD.

Fixed two Solaris 2.5, 2.5.1, 2.6 and 2.7 TCP and UDP host name or IP address reporting bugs, reported by James Mathiesen <James-Mathiesen@deshaw.com>. This fix was offered as a patch to 4.35.

Updated the Customize script to cause ENTER to use all defaults. Amir J. Katz <amir@ndsoft.com> suggested this and helped test the changes.

Updated Solaris ICMP and IP stream handling, based on a report from Igor Schein <igor@txc.com>.

Fixed a bug in the Digital UNIX mount table handling, reported by Bob Ward <bward@thehartford.com>. While working on the bug, found and updated some obsolete AdvFS code. This fix was offered as a patch to 4.35.

4.37 September 15, 1998

Deactivated SGI IRIX support and archived revision 4.36 sources and binaries in pub/tools/unix/lsof/OLD.

Improved performance of FD searching. This was offered as a patch to 4.36.

Amir J. Katz <amir@ndsoft.com> pointed out that ranlib isn't needed for AIX or Solaris. Made appropriate Configure script changes.

Fixed a file offset reporting bug for HP-UX VCHR and VBLK device nodes located on a VxFS root. Doug Siebert <douglas-siebert@iowa.edu> reported the

bug. The fix was offered as a patch to 4.36.

Resolved an HP-UX root device name reporting bug, partly caused by an out-dated local copy of the <sys/mount.h> mount structure, by generating a local header file with the structure that can be compiled without needing _KERNEL defined. Doug Siebert also reported this bug.

Changed some dialect source code -- Digital UNIX, Solaris, SunOS, and UnixWare -- to make more consistent with ps the user ID lsof reports in the USER column. Added a 00FAQ entry about it. Igor Schein <igor@txc.com> reported the Solaris and SunOS lsof inconsistencies with what ps(1) reports.

Ported lsof to Pyramid ReliantUNIX 5.44.

Added brackets as comments to case, do, done, else, endif, esac, if, and while statements in Configure to
assist in navigating its clauses.

Added more Linux 2.0.x glibc work-arounds.

Added support for UnixWare 7.0.1.

Ralph Forsythe <ralph@contact-paging.com> provided a new FreeBSD test system.

4.38 November 25, 1998
Added support for recent FreeBSD 3.0 distributions. A 3.0 test system was provided by David O'Brien <obrien@NUXI.com>. This was offered as a patch to 4.37.

Updated the scripts/idrlogin.perl* files to look for sshd processes in addition to rlogind and telnetd ones.

Added support for DU 5.0 Beta. Berkley Shands <berkley@cs.wustl.edu> provided a test system.

Added support for OpenBSD 2.4 with changes supplied by Kenneth Stailey <kstailey@disclosure.com>.

Changed the Solaris 2.7 tests and documentation to Solaris 7.

Made some changes to the header files for NEXTSTEP 3.3 and added support for OPENSTEP 4.x with help from Michael A. Hovan III <mhovan@BLaCKSMITH.com> and Carl Lindberg <Carl_Lindberg@BLaCKSMITH.com>. The combined dialect subdirectory is named n+os. One of Carl's changes propagates RC_CFLAGS to the library Makefile. Timothy J. Luoma <luomat@peak.org> helped test under NEXTSTEP 3.3 and OPENSTEP 4.2.

Made UW 7.x version sensitive to the presence of ptf7038. Added peer PCB address to Unix domain socket Name column, even when a path name has been located. Information for these changes was supplied by Francis Le Bourse <flebourse@intelcom.fr>. Lee Penn <lee@dlpco.com> provided a test system.

Tested lsof under OSR 5.0.5 on a test system also provided by Lee Penn.

Made path name argument processing more tolerant of errors per a suggestion from Julian Gordon <julian@cadence.com>.

Acquired a new UnixWare 2.x test system, generously provided by Computer Classroom, Inc. -- Matthew Thurmaier <matt@compclass.com>, Ken Laing <ken@compclass.com>, and Andrew Merril <andrew@compclass.com>. Updated Configure to accept a UnixWare version of 2.1.3.

Updated kmem-based lsof for Linux 2.0.36.

Updated NetBSD sources for a change in a UVM virtual mapping header file.

Corrected a cache allocation bug in Sun format kernel name cache handling. The bug only shows up when the kernel name cache is inaccessible.

4.39 December 29, 1998

Corrected problems with large device number handling for 64 bit Solaris 7. The problems were reported by Steve Bellenot <bellenot@math.fsu.edu>. Steve helped test the fixes. The fixes were offered as two patches to lsof 4.38.

Improved FreeBSD Configure operations for header
files that must be obtained from the kernel source
tree, based on a suggestion from David O'Brien
<obrien@NUXI.com>.

For Bela Lubkin <filbo@deepthought.armory.com> made
optional with +f[cfn] the display of file structure
address, shared use count, and node structure
address. /proc-based Linux doesn't implement this
feature, because it doesn't read kernel structures
from kernel memory. Modified the PTX -X option
to
take advantage of the new file structure display
option. Added shared.perl5 to the scripts/
subdirectory to provide an example of how +f[fn]
might be used to track shared file descriptors and
files.

Added more /dev/kmem-based Linux glibc evasions,
provided by Jeff Johnson <jbj@redhat.com> and Maciej
Lesniewski <nimir@kis.p.lodz.pl>. Jeff helped test
them on various Linux architectures.

Tested on AIX 4.3.2; no changes were required.
Doug Crabill <dgc@purdue.edu> provided a test
system.

Fixed -c option to detect missing command name when
following option begins with `+'.

4.40 January 25, 1999
Added support for using the CDS compiler for Reliant
Unix 5.44 and above. Made Reliant Unix MIPC support
optional, dependent on the presence of <sys/mipc.h>.

Based on a report from Michael Schmitz <MSchmitz@lbl.gov>
that /dev/kmem-based lsof misbehaves on a Linux
2.0.x m68k kernel without module support, made the
absence of query_module() or
get_kernel_syms()
Linux kernel support a fatal error. Updated relevant
sections of 00FAQ to reflect the change.

Added the ability to force the Linux Configure
stanza to use the /proc or /dev/kmem source base
via a LINUX_BASE environment variable specification.
This is a cross-configuration assist.

Added "+D <dir>" and "+d <dir>" options for directory
searching. +D searches the entire tree, starting
at <dir>, including <dir>, its contents, and its
subdirectory branches; +d searches only <dir> and
its contents, but not its subdirectory branches.
Improved lsof's searching of the specified name
list to compensate for anticipated long lists from
+d and +D.

Made an egrep in the Solaris Configure stanza usable
by the standard and XPG4 egrep's. Kenneth Stailey
<kstailey@disclosure.com> pointed out the improvement.

Fixed bugs in /dev/kmem-based Linux and UnixWare
Unix domain socket name searching.

Changed a Linux Alpha #include to be conditional
on
the presence of its named header file, so that
lsof will compile on Red Hat 5.1 and 5.2 (Linux
kernel 2.0.35) where the header file is absent.
The problem was reported by Alexandre Oliva
<oliva@dcc.unicamp.br>.

Fixed an AIX 4.3+ bug in procinfo struct space
allocation, reported by Jeff Stewart <jws@purdue.edu>.
This was offered as a patch to 4.39.

Added an lstatsafely() function to offer the same
isolation for lstat() calls that statsafely() offers
for stat() calls. This made DOSTAT_FUNCTION no
longer necessary, so deleted it.

With help from Laurent P. Montaron <lpm@sequent.com>
ported lsof to PTX 4.4.4. Laurent did a monumental
job of identifying TCP/IP changes by their TCP
version, rather than by their PTX (With mix 'n
match PTX and TCP/IP versions, the PTX version
often has no bearing on the TCP/IP version.), and
changed the Configure script and pre-processor
#if/#else/#endif blocks to match. He also updated
Unix domain socket handling
for PTX TCP/IP versions
4.5 and above.

Updated CLIENT handle acquisition of fill_portmap()
in print.c to use the more modern RPC function

clnt_create() in place of clnttcp_create() where
possible. PTX 4.4.4 requires clnt_create().

4.41 February 27, 1999
Added FreeBSD 3.1 and and 4.0 support with help
from Sheldon Hearn <axl@iafrica.com>, David O'Brien
<obrien@NUXI.com>, and John Polstra <jdp@polstra.com>.

Corrected bungled AIX 4.3+ patch that went into
lsof 4.40.

Reorganized the Configure script to improve Makefile
construction. A specific impetus for this was to
allow FreeBSD system-wide make flags to be propagated
to the lsof Makefiles, but other goals were to make
sure that the DEBUG= make entry can over-ride
standard CFLAGS values, and to better manage the
identification of compilers and their versions.
Two compiler-related values may now be supplied in
environment variables: 1) the compiler path in
LSOF_CC; and 2) the compiler version
in LSOF_CCV.
00XCONFIG documents them.

Added support for Pyramid Reliant Unix bsdsfs,
msockfs, and sockfs file systems.

Added an optional LSOF_CINFO string to Configure,
producing a CINFO string in selected Makefiles,
producing a #define LSOF_CINFO in selected version.h
header files. The purpose of this is to allow
Configure the option to propagate information to
the lsof -v output. It is now used for Linux to
identify the code base, and for HP-UX 10.30 and
11.0 and Solaris 7 to identify the kernel bit size.

Added system information to NEXTSTEP and OPENSTEP
-v output, from the second line of hostinfo's
output.

Fixed a login name buffer overflow problem in the
processing of -u option values. This was offered
as a patch to 4.40. !!!THIS IS A SERIOUS STACK
OVERFLOW BUG; A LINUX EXPLOIT EXISTS FOR IT THAT
OPENS A BASH SHELL WITH LSOF'S AUTHORITY -- E.G,
SETGID(KMEM) POWER!!!

Improved the Solaris mount table filter so the

volume manager's
fake mount point, "/vol", is
ignored and doesn't supplant "/" in NAME column
path assemblies. Igor Schein <igor@txc.com> reported
this bug and provided important help in finding
it. This was offered as a patch to 4.40.

Changed the Linux /dev/kmem-based lock ownership
test to answer a problem reported by Tom Christiansen
<tchrist@jhereg.perl.com>. This was offered as a
patch to 4.40.

Installed an HP-UX 11 patch, suggested by Kevin
Vajk <kvajk@cup.hp.com>, that adjusts a private
lsof kernel header file, derived via Q4, to correspond
to an HP-UX patch bundle.

Made NetBSD 1.3I sockproto structure adjustment.

4.42 March 30, 1999
Fixed a typo in the HP-UX dfile.c that caused +fF
and +fN output controls to swap effect.

Enabled for OpenBSD 2.5 per notice from Kenneth
Stailey <kstailey@kstailey.tzo.com>

Made more VM accommodations for FreeBSD 4.0.

Improved file system search reporting to include
path name components when they're available,
instead
of mindlessly reporting the file system name in
the NAME column. Guy Dallaire <gdallair@geocities.com>
brought the need for this change to my attention.

Updated Solaris 2.6 VxFS for Veritas Oracle Database
Edition 2.0, VxFS version 3.3, and VxVm version
2.5.4, based on a report from Chris Kordish
<chris.kordish@East.Sun.COM>. Chris kindly provided
a test system.

Improved HP-UX ipc_s patch detection in Configure,
response in .../dialects/hpux/hpux11/ipc_s.h, and
documentation in 00FAQ, Kevin Vajk <kvajk@cup.hp.com>
helped test.

Added to Customize the option to suppress HASKERNIDCK
selection for specified dialects. Suppressed it

for /proc-based Linux lsof, and removed its test
and code from there. Tin Le <tin@netimages.com>
alerted me to the need for this update.

Ported to official Digital UNIX 5.0 release.

Changed DU lsof to use the knlist(3) function when
no kernel file has been specified with -k. This
change was suggested
by Erich Wimmer
<Erich.Wimmer@digital.com>.

Updated Configure for latest NetBSD (1.3I?) with
UVM support the default.

4.43 May 11, 1999
Corrected a typo in the Solaris gcc discussion in
00FAQ. Made changes to the Solaris 2.5[.1] private
tcp_s structure. Both changes were done in response
to reports from Igor Schein <igor@txc.com>, who
tested the Solaris 2.5 change.

Made more IPv6 adjustments to lsof for Tru64 UNIX
(Digital UNIX) 5.0, based on information obtained
from Compaq by Berkley Shands <berkley@cs.wustl.edu>.

Corrected HP-UX error message about HP-UX 11 q4 usage.
Amir Katz <amir@ndsoft.com> reported the correction.

Fixed a GlibC 2.1 conflict in /proc-based Linux lsof.

Fixed a man page typo reported by Vlad Harchev
<hvv@hippo.ru>.

Changed some Solaris 2.7 references to Solaris 7
in Configure and 00XPORTING.

Added a Solaris example to the echo statements that
are the install rule in the SunOS/Solaris Makefile.

Added a field to
the file structure output --
FILE-FLAG (file structure open flags, f_flag[s],
and process file flags, typically u_pofile)) --
enabled with +f[gG]. Its field output character
is 'G'.

Figured out another piece of the HP-UX 11 patched

ipc_s structure puzzle with the help of Keith Kalet
<KEITH_KALET@HP-USA-om41.om.hp.com>.

Fixed a PTX real vnode to real inode interpretation
bug.

Added link count to lsof output. Eric Dumazet
<dumazet@risgw.ris.fr> requested and helped test
it. The new +L option enables and filters it.
Its field output character is `k'.

Updated Configure script to recognize NetBSD 1.4.

Updated AFSConfig to handle default answers to
questions.

Incorporated patch from Jonathan Sergent <sergent@io.com>
that enables /proc-based Linux lsof to run on both
32 and 64 bit kernels.

Updated Configure script with a patch from David
O'Brien <obrien@NUXI.com> that recognizes FreeBSD 3.2.

4.44 June 24, 1999
Corrected use of nlink member
of hsnode for SunOS
4.1.x High Sierra File System files. John Dzubera
<zube@tlaloc.stat.colostate.edu> reported the
problem and helped test the fix. Also fixed a
SunOS segmentation fault bug. These fixes were
offered as a patch to 4.43.

Improved handling of /proc-based Linux UNIX PCB
address.

Fixed a NEXTSTEP and OPENSTEP bug that made repeat
option (-r) processing malfunction. This fix was
offered as a patch to 4.43.

Fixed Configure so it doesn't use -O in the Cflags
for the bundled HP-UX C compiler. Jim Ankenbrandt
<jankenbrandt@penton.com> reported the problem.

Corrected output ordering of parent PID and process
group ID when both -R and -g are specified.

Enhanced the pdev.c and pdvn.c library modules for
wider use. These dialect versions use the new

library modules: DEC OSF/1, Digital UNIX, and Tru64
UNIX; Pyramid DC/OSx and Reliant UNIX; SCO OSR and
UnixWare; and Sequent PTX.

Added basic clone device support to /dev/kmem-based
HP-UX
lsof for HP-UX 10.30 and higher.

Added raw socket support to /proc-based Linux lsof.

Changed NODE-ADDR column title to NODE-ID in
anticipation of using more general identification
information in the column.

Ported to UnixWare 7.1, using a test system kindly
provided by Matt Thurmaier <matt@compclass.com>
and Don Draper <dond@sco.com>.

Updated for NetBSD 1.4C VM changes, and a new
current and root working directory structure.

Made minor adjustment for latest Tru64 UNIX 5.0
Beta release.

4.45 July 30, 1999
Fixed quoting problem in DEC OSF/1, Digital Unix,
and Tru64 UNIX Makefile's install rule. The problem
was reported by Berkley Shands <berkley@cs.wustl.edu>.
Fixed bug in Tru64 UNIX 4 lsof that caused FDs to
be skipped. These fixes were offered in a patch
to 4.44.

Fixed a repeat-mode /proc-based Linux lsof bug,
reported by Sami Farin <sfarin@ratol.fi>. This
was offered as a patch to 4.44.

Picked lint, some reported by Sami
Farin.

Corrected a 00DCACHE documentation error in a sample
shell script. The problem was reported by Chad R.
Larson <chad@larsons.org>. Changed commented-out
entries in machine.h files so they require more
thought and work when the comments are removed,
based on a remark by Chad.

Compensated for the practice of Solaris 7 and above
to record the dev= value in /etc/mnttab in 32 bit

mode, even on 64 bit systems. This was offered as a patch to 4.44.

Added a C library test for /proc-based Linux lsof, so that the #include files can be adjusted for a non-GlibC environment. The need for this was reported by Andrew Hill <andrewh@tirin.openworld.co.uk>. This was offered as a patch to 4.44.

Added support for Auspex LFS 1.8.1 and 1.9.2 to SunOS 4.1.4 lsof. The support was requested by Quentin Fennessy <quentin@dvorak.amd.com>, who provided information and did testing.

Enabled IPv6 support code for NetBSD and OpenBSD, conditional on Configure script tests. Wolfgang Rupprecht <wolfgang@wsrcc.com> supplied the NetBSD code and tested it. The OpenBSD code I constructed has been compiled but not tested.

Updated the identd Perl 5 script, based on a report from Wendy Lin <af5@taiyang.cc.purdue.edu> that the space in its response line in front of the user name violates RFC 1413.

Added IPv6 support to /proc-based Linux lsof. Jonathan Sergent <sergent@ETLA.NET> and Andrew Thomas Sydelko <sydelko@ecn.purdue.edu> kindly provided a test system.

Updated man page description of AIX multiplexed files to indicate that they might be /dev/ptc or /dev/pts, depending on the AIX version. The correction was suggested by Onno van der Linden <onno@simplex.nl>.

Sylvain Robitaille <syl@alcor.concordia.ca> reports lsof passes his Y2K tests.

4.46 October 23, 1999

Corrected /proc-based Linux lsof to detect that an IPv6 address is a mapped IPv4 address. The problem was reported and analyzed by Arkadiusz Miskiewicz <misiek@misiek.eu.org>, who also tested the fix.

Added a libc5 library /dev/kmem-based Linux lsof

circumvention, supplied by Jason Lingohr
<lingman@lucid.net.au>.

Corrected a bug in -t (terse) AIX output, reported
by Wendy Lin <af5@taiyang.cc.purdue.edu>. I
introduced the bug at revision 4.43 when adding
FILE_FLAG reporting. This was offered as a patch
to 4.45.

Added a work-around for a problem in the OpenBSD
2.3 <sys/pipe.h> header file. Volker Borchert
<bt@teknon.de> provided and tested it.

Improved description of cross-building lsof for a
64 bit Solaris 7 system on a 32 bit system with
suggestions from Phillip Edwards
<Philip.Edwards@sn.wpafb.af.mil>.

Fixed a gawk POSIX-mode pattern error in the Linux
/dev/kmem-based Mksrc script, based on a tip from
Ambrose C. Li <acli@mingpaoxpress.com>.

Fixed a bug in the Tru64 UNIX IPv6 handling, courtesy
of a report from Casper Dik <casper@holland.sun.com>.

Enabled support for OpenBSD
2.6.

Enabled support for BSDI BSD/OS 4.1, based on a
report from Jeffrey C Honig <jch@bsdi.com> that
only a Configure script change is necessary.

Enabled Configure script to use gcc for building
lsof for a 64 bit Solaris 7 and 8 kernels, if the
gcc version is 2.95 or above.

Improved -i option handling for systems with IPv6
support so that it will search for a host name in
both IPv4 and IPv6 families, when that is possible.
As a companion modification, changed -V processing
to report a single error when a multiple host name
match is requested. Casper Dik <casper@holland.Sun.COM>
helped test.

Fixed a DEC OSF/1, Digital UNIX, Tru64 UNIX repeat
mode bug, reported by Mayer Ilovitz <mayer@cooper.edu>.
Mayer helped test the fix. The fix was offered as a
patch to 4.45.

Changed Solaris socket file recognition scheme, so it is (nearly) the same through Solaris 8, where the previous clone device scheme no longer works.

With significant assistance from Casper Dik, added support for Solaris 8 Beta and Beta refresh. The IPv6 support in Solaris 8 is still in some flux, so there are temporary compensations for the differences between Beta IPv6 support and Beta refresh IPv6 support. Casper and I hope those differences disappear by FCS.

Improved the delivery of information on Solaris 2.5.1, 2.6, 7, and 8 door files.

Fixed a repeat mode bug that surfaces when /etc/passwd changes between cycles. The bug report and diagnostic help were supplied by Igor Schein <igor@txc.com>. The fix was offered as a patch to 4.45.

Added support for INRIA IPv6 to NetBSD. Jean-Luc Richier <Jean-Luc.Richier@imag.fr> provided patches and a test system on which to verify them.

Added support for AIX 4.3.3. Jeff W. Stewart <jws@anaconda.cc.purdue.edu> provided a test system.

Made adjustments for FreeBSD 4.0-current.

Improved reporting of information for AIX sockets that lack protocol control blocks.

4.47 November 29, 1999

Based on a query from Jean-Pierre Radley <jpr@jpr.com>, changed the lsof top-level Makefile to propagate CFGF to the library Makefile. (DEBUG was already being propagated.) Added osrgcc and scogcc Configure abbreviations (to use gcc) for Jean-Pierre.

In response to a query from Igor Schein <igor@txc.com>, improved the Configure script test for Solaris 7 and 8 that decides if the compiler can produce 64 bit executables.

Made an ugly hack, based on making a private rnode

structure definition from q4 output, to compensate
for HP-UX 10.20 and lower recent NFS3 patches. HP
didn't supply an updated <nfs/rnode.h> with the
patches. The problem was reported by Will Partain
<partain@mekb2.sps.mot.com>. Elias Halldor Agustsson
<elias@hi.is> helped identify the patches as
PHNE_18173, PHNE_19426, PHNE_19937, and PHNE_20091,
and provided a test system.

Switched BSDI test system from 2.1 and 3.1 to 4.0.1,
courtesy of Terry Kennedy <terry@tmk.com>.

Added
some more dev_t hacks for Alpha FreeBSD 4.0.

Added support for IPv6 on BSD 4.x. The support hasn't
yet been tested, just compiled.

Added support for the mnt file system (mntfs or
/etc/mnttab) on Solaris 8. Tested on Solaris 8
BETA-Refresh.

Made selection of optional fields (e.g., PPID with
-FR) in a field output specification select the
optional field, too, so that the option selector
for the field (e.g., -R) isn't also required. This
change was made in response to an inquiry from John
DuBois <spcecdt@armory.com>. This may require some
revision to scripts that parse all field output;
two scripts in the lsof distribution's scripts/
subdirectory had to be updated.

Corrected handling of Linux IPv4 addresses mapped
in IPv6 addresses.

Tested under OpenBSD 2.6.

4.48 January 14, 2000
Modified -i argument processing of colon-separated
IPv6 addresses to recognize an IPv4 address mapped
in an IPv6 address and handle it as an
IPv4 address.
This was offered as a patch to 4.47.

Added a defined symbol (NOWARNBLKDEV) to control
(inhibit) the issuance of a warning when no block
devices are found. This was done anticipating its
need in FreeBSD 4.x, but that dialect version no

longer has any block devices, so HASBLKDEV was
disabled for it instead. NOWARNBLKDEV was left in
place for possible use in the future.

Enabled KAME IPv6 Configure support for FreeBSD
when <netinet6/in6.h> is found.

Disabled use of gcc to compile lsof for 64 bit
HP-UX 11.

Updated Configure to recognized FreeBSD 3.4.

Based on suggestions from Bernt Christandl
<beb@MPA-Garching.MPG.DE> improved AFS configuration
for AIX and Solaris, and updated AIX AFS 3.5 support.
Johannes Tax <tax@bluedog.oit.unc.edu>, Hung T.
Pham <hung_pham@unc.edu>, and Curt Freeland
<curt@grumpy.cse.nd.edu> provided test systems.

Updated lsof's private rnode definition for AIX
4.3.3, since IBM still doesn't ship the
<oncplus/nfs/rnode.h>
header file and the rnode
structure definition in <nfs/rnode.h> doesn't match
what the kernel uses. This was offered as a patch
to 4.47.

Weakened the test in the Linux /proc-based lsof of
the field count of data lines in /proc/net/{tcp,udp}.
It appears that recent 2.3.x Linux kernels have
added untitled fields to these files. The bug
report came from Gabor Liptak <gaborliptak@usa.net>.

Adjusted for a FreeBSD 4.0 change in the definition
of [_]KERNEL. David O'Brien <obrien@NUXI.com> reported
the problem and provided a test system.

Removed the HASPPID bracket from Fppid (the -R
option state variable) so that the field select
table will compile even when HASPPID is not defined.
This problem was introduced at revision 4.47 with
code that causes some field output characters to
set option states. The problem was reported by
David Bacon <bacon@birch.eecs.lehigh.edu>.

4.49 April 3, 2000
Made clearer in man page that "Lxx" FDs are

AIX
loader table references. Also updated the 00FAQ
discussion of the Stale Segment ID bug to include
AIX 4.3.x.

Modified support for NetBSD 1.4Q to include the
<sys/buf.h> header file to cope with an MFS change.

Added support for OpenBSD UVM virtual memory.

Added support for AIX systems with > 2GB of memory.
Chris Sylvain <csylvain@itg.ummc.umaryland.edu>
reported the problem and provided the solution.
Chris also supplied some minor code cleanup. This
was offered as a patch to 4.48.

Based on new information from Igor Schein <igor@txc.com>
made additional compensation in Configure script
for 64 bit Solaris 7 and 8 gcc.

Added some 00FAQ info on the effect ordering of
the +fg and -FG options has on output format.

Improved NetBSD IPv6 configuration, based on a
suggestion from Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>. Added code to
convert IPv4-mapped-in-IPv6 addresses to IPv4
addresses.

Updated the information in 00FAQ and the
HP-UX 11
binary directory README files on the HP-UX 11 ipis_s
patch with new information supplied by Eric McWhorter
<emcwhorter@xsis.xerox.com>.

Added documentation on changes to HASFSTYPE and
HASNCACHE, and the new HASPRIVPRIPP.

Adjusted Configure for FreeBSD 5.0. Made additional,
necessary changes to Configure and the BSDI sources
to eliminate load errors.

Added KAME IPv6 support to FreeBSD at the request
of Ollivier Robert <roberto@eurocontrol.fr>, who
provided a test system.

Corrected the script that generates the CHECKSUMS
files for binaries to correctly name the detached

PGP certificate. The documentation bug was reported
by Michael Hennecke <hennecke@rz.uni-karlsruhe.de>.

4.50 June 29, 2000
Added a NetBSD alpha test host, courtesy of Ray
Phillips <r.phillips@mailbox.uq.edu.au>. An lsof
4.49 binary, built on Ray's 1.4.1 system was made
available prior to the 3.50 release.

Upgraded the system map file tests in /dev/kmem-based
Linux
lsof, making the use of DEBIAN_LINUX_LSOF
unnecessary. Tested the changes on a system made
available by Vincent Kujala <kujala@geog.ubc.ca>
and Jim Mintha <jim@ic.uva.nl>.

Forced AIX to use the large-file-enabled versions
of lstat (lstat64) and stat (stat64) if <sys/stat.h>
contains stat64. This should allow lsof to stat()
AIX files > 2GB even when the builder has not
defined the "large file enabled programming
environment." Configure tests <sys/stat.h> and
puts -DHASSTAT64 in the Makefile's CFLAGS to make
this happen. Fernando A.B. Whitaker
<whitaker@cenapad.unicamp.br> reported the problem.
This was offered as a patch to 4.48.

Enabled Configure script to handle OpenBSD 2.7.
Angelos D. Keromytis <angelos@dsl.cis.upenn.edu>
reported the availability of OpenBSD 2.7 and supplied
the Configure script patch.

Improved handling of DOOR and fattach()'d files in
Solaris.

Changed message about missing kernel symbol file
from "not yet determined"
to "none found".

Updated FreeBSD, NetBSD, NEXTSTEP, OpenBSD, and
OPENSTEP support to report "no PCB" and the values
of the SO_CANTSENDMORE and SO_CANTRCVMORE state
flags when a socket structure has no inpcb pointer.
This modification was made to AIX lsof at revision
4.46. Added an entry to 00FAQ about sockets that
have no inpcb pointer.

Upgraded support for FreeBSD 5.0-CURRENT. Ben

Smithurst <ben@scientia.demon.co.uk> supplied
patches and did testing. David O'Brien <obrien@NUXI.com>
supplied a test system. The update included dropping
the Fctty part of file descriptor file system
support, conditional on a Configure script test.
I propagated those changes to BSDI, NetBSD, and
OpenBSD in anticipation of their having the
modification in the future. David also arranged
with Michael Haro <mharo@area51.fremont.ca.us> for
a FreeBSD 3.4 test system.

In response to an lsof 3.72 bug report from Jim Mewes
<jim@corp.phone.com>, added more kernel
address
filtering to the lsof function, kread(), that reads
Solaris kernel data.

In response to a report from Marc Duponcheel
<marc@offline.be>, added tests to the /proc-based
Linux lsof to ignore file systems of types "autofs"
and "pipfs".

Based on a report and information supplied by Casper
Dik <casper@holland.Sun.COM>, updated the ncache_load()
function in lib/rnch.c with new code that deals
with a post Solaris 8 change in kernel name cache
(DNLC) handling. Casper tested the update, which
should be invisible to Solaris versions without
the new DNLC code.

Added support for Solaris VxFS QIO files, based on
a report from Kieran Broadfoot <kieran.broadfoot@gs.com>.
Kieran help test the support.

Added support for PTX 4.4.6 and 4.5[.1] with help
from the usual cast of good people at Sequent.

Added support for 64 bit file sizes and offsets on
BSDI, FreeBSD, NetBSD, and OpenBSD, based on a
report from Dan Nelson <dnelson@emsphone.com>.
Dan
supplied a patch and did FreeBSD testing.

Added Configure script recognition of NetBSD 1.5,
based on a report from Andrew Brown <atatat@atatdot.net>.
Thomas Klausner <wiz@danbala.ifoer.tuwien.ac.at> updated
the NetBSD port package to use a pre-release of this
addition.

At the last minute saw a notice via deja.com's
UseNet search service that FreeBSD 3.5 had been
released and lsof didn't grok it. Added recognition
of 3.5 to lsof's Configure script, but didn't have
the opportunity to test lsof on 3.5.

4.51 August 21, 2000
Added Configure script support for the upcoming
Solaris 9 release based on suggestions from Casper
Dik <Casper.Dik@holland.sun.com>.

Changed sample Perl scripts to assume that
/usr/local/bin/perl is Perl 5 and Perl 4 may be
found in /usr/local/bin/perl4.

Updated Configure to recognize FreeBSD 4.1 and made
a FreeBSD pre-release distribution available.

Bela Lubkin <belal@sco.COM> tested lsof on the
upcoming SCO OSR 5.0.6 release
and reports that
lsof appears to work properly.

Updated the AIX compiler test in Configure to
recognize its version 5.

Updated AIX 4.3.3 support with automatic recognition
of the proper rnode structure, based on machine
bit width. Also added code to detect when processing
the -X option that lsof has been compiled with the
"other" AIX 4.3.3 user structure and to apply
compensations. When a compensation method works,
it's applied during subsequent -X processing; when
none works, further -X processing is disabled.

Added Tru64 UNIX 5.1 support. Updated Tru64 UNIX
library text file support to recognize new kernel
support for AdvFS library files. Berkley Shands
<berkley@cs.wustl.edu> and Klaus Saggerer USG
[saggerer@zk3.dec.com> helped put me in contact
with Chang Song <song@zk3.dec.com>, the developer
of 5.1's new kernel name cache and he helped me
develop new code in lsof to access it.

Corrected reporting of PTX fattach()'d address.

Changed

Configure and dlsof.h for NetBSD and OpenBSD
to use /usr/include/uvm header files when available.
Andrew Brown <atatat@atatdot.net>, Thomas Klausner
<wiz@danbala.ifoer.tuwien.ac.at>, and Wolfgang
Rupprecht <wolfgang@wsrcc.com> pointed out the need
to do this for NetBSD. Andrew provided access to
a NetBSD 1.5 system for verifying the changes.

Installed snprintf() support, including a private
version in the lsof library for those UNIX dialects
without the function. Changed all sources to use
it instead of sprintf() and strcpy().

Fixed a memory leak in the readvfs() functions of
BSDI, DEC/OSF1, Digital UNIX, FreeBSD, NetBSD,
OpenBSD, and Tru64 UNIX.

Tested on Linux 2.4.

Modified the Pyramid MkKernOpts script to compensate
for `uname -s` configuration alternatives. Robert
Dahlem <Robert.Dahlem@ffm2.siemens.de> supplied
the modification.

Obtained access to an FCS Solaris 8 64 bit system
and built lsof on it, using Sun Workshop C 5.0 and
gcc
2.96 20000814 (experimental). Both compilers
produce a working lsof.

4.52 November 8, 2000
Completed work on an HP-UX 11.11 port that uses a
pstat(2) interface provided by HP. To distinguish
it from its predecessors for HP-UX, this lsof
version is called PSTAT-based and the predecessor
versions are now called /dev/kmem-based. I am
indebted to the far-sightedness and support of
these good people at HP for making PSTAT-based lsof
possible: Carl Davidson, Louis Huemiller, Rich
Rauenzahn, and Sailu Yallapragada. The PSTAT-based
sources are in lsof_4.52/dialects/hpux/pstat, the
/dev/kmem-based ones in lsof_4.52/dialects/hpux/kmem.

Ported to IBM Monterey for Merced|Itanium, aka AIX
5L. It configures via the Configure script's "aix"
abbreviation and has been tested on AIX 5L Beta 3.
Jay Beck, Steve Dibbell, Loc Le, Nasser Momtaheni,

and Malcom Zung of IBM provided generous support.
Since AIX 5L is still in Beta testing, this port
can't be
considered complete.

Added Configure support for OpenBSD 2.8. David
Mazieres <dm@cs.nyu.edu> provided a test system.

Based on a report from Marc Christensen
<marc@mecworks.com> added sockfs to the mount scan
exemption list for /proc-based Linux lsof.

Added large file, CDFS, and DOSFS for UnixWare 7.x.
Added UnixWare device memory mapping support. All
UnixWare changes were supplied by Eric Dumazet
<edumazet@cosmosbay.com> Eric also supplied some
miscellaneous bug fixes.

Deferred name cache loading until printname() needs
to use the name cache.

Terminated Pyramid, SunOS 4.1.x, and Ultrix support,
because test systems are no longer available.
Final Pyramid and Ultrix source code distributions
for lsof revision 4.51 may be found on lsof.itap.purdue.edu
in pub/tools/unix/lsof/OLD/src. The no longer
supported SunOS 4.1.x source code is still distributed
with the Solaris source code.

Added code to set Solaris node address to real vnode
address,
when applicable.

John Speno <speno@lopan.isc-net.upenn.edu> provided
information that enabled me to update the Tru64
AdvFS (MSFS) node definition for AdvFS version 5.

Added Tru64 5.x CFS support with help from Kris
Chandrasekhar <Kris.Chandrasekhar@compaq.com>,
Diane Lebel <lebel@zk3.dec.com>, and John Speno.
The support only provides information about cached
file attributes.

Installed a Configure patch for HP-UX 11 supplied by
Kenneth Stailey <kstailey@disclosure.com> that adds
another command to q4 input.

Tested on FreeBSD 4.2.

Will Day <willday@rom.oit.gatech.edu> and Frank Winkler <frank.winkler@germany.sun.com> graciously supplied Solaris 8 binaries.

Added Solaris 9 text file support, supplied by Casper Dik <Casper.Dik@holland.sun.com>.

4.53 December 6, 2000

Added the AIX 5L j2_lock.h to the distribution with a Configure script step to use it when it's missing from /usr/include/j2.

Removed SunOS 4.1.x support.

Removed Linux 2.0.x /dev/kmem support.

Fixed VBLK and VCHR special device file reporting to handle /dev information more accurately.

Added a Apple Darwin / Mac OS X 1.2 port, provided by Allan Nathanson <ajn@apple.com>. Allan also arranged for a test system so I can maintain this port. An additional test system was provided by Dale Talcott.

Dropped claims of support for all UnixWare versions except 7.1.0, since that is the only version on which I can test lsof. Even though lsof 4.53 is deprecated for UnixWare 2.1.3, installed a patch for it with testing done by A. Channing Clark <clark.channing@heb.com>.

Dropped claims of support for all SCO OpenServer versions except 5.0.5, since that is the only version on which I can test lsof.

4.54 January 19, 2001

Added compensation for a change that made the FreeBSD mount structure invisible. I can only test back to 3.2 and the compensation works there, so it's been #ifdef'd for 3.2 and above. David O'Brien <obrien@FreeBSD.org> provided the necessary clue.

Based on a report from Valdis Kletnieks <Valdis.Kletnieks@vt.edu>, changed all IPv6 support

to report a TYPE of IPv6 for sockets with IPv4
addresses mapped in IPv6 addresses. The previous
lsof behavior was to report their TYPE as IPv4.

Restored the Linux GlibC test to Configure, removed
at revision 4.53, based on a report from John Dzubera
<zube@cs.colostate.edu>, that RedHat Linux 6.0 still
needs the test.

Made setting of link count for Solaris more selective.

Limited Readlink() recursion to MAXSYMLINKS. The bug
was reported by Jan Dvorak <johnydog@go.cz>.

Dropped the *claim* that lsof runs on Solaris 2.5.1.
It may well do so, but I no longer have access to a
test system.

Fixed an #endif comment typo, reported by Igor Schein.

Fixed a typo in a cast for a Tru64 UNIX 5.1 function
and updated Configure for Tru64 UNIX 5.0 and 5.1 with
information from Jesse Perry <jesse.perry@compaq.com>.

Corrected
non-fatal typos in the AdvFS support in
dnode.c for Tru64 UNIX.

Added msdos file system support for NetBSD and OpenBSD.
Andrew Brown <atatat@atatdot.net> requested and helped
test it.

4.55 February 15, 2001
Based on a report from Bernd Eckenfels <ecki@lina.inka.de>
added support in lsof for files in /proc/<PID>/maps
that have been deleted.

Changed PGRP output title to PGID, conforming to
the most common current abbreviation for Process
Group ID (PGID). While some systems continue to
use *pgrp for internal kernel variable names, most
systems that support the display of PGID via ps(1)
now title it PGID. The lsof -g and -Fg options
operations are unchanged in function; only titles
and descriptions have changed. Also changed internal
variable names from *PGRP and *pgrp to *PGID and
*pgid where possible.

Dropped the *claim* that lsof runs on HP-UX 9.x.
It may well do so, but I no longer have access to
a test system.

In response
to a suggestion from Jeff Howie
<jeff.howie@federated.ca> added support for command
name selection by regular expression. A new form
of the -c option value is use to identify and
specify a regular expression.

Restore the *claim* that lsof works on UnixWare
7.0, since I re-acquired a test system.

4.56 May 3, 2001
Corrected some problems Amir Katz <Amir_Katz@bmc.com>
found with Insure++, one in lib/dvch.c, the rest
in Solaris sources. Amir's report also helped me
find an error in an snpf() call that caused (the
unsupported) Solaris 2.5.1 lsof to crash. Wally
Winzer, Jr. <wally.winzer@ChampUSA.COM> helped test.

Added support for UnixWare 7.1.1 and above in-kernel
UNIX sockets. John Hughes <john@Calva.COM> kindly
provided code and access to a test system. John
also provided a test system and advice for adding
UnixWare 7.1.1 NonStop Cluster and CFS support.
More help with that effort came from Kurt Gollhardt
(SCO), Barbara Howe (SCO), Bela Lubkin
(SCO), and
Dewan Rashid <Dewan.Rashid@ir.com>.

Archived a set of compilation hints (patches) from
Bill Melvin <Bill.Melvin@esc.edu> that make it
possible to compile the old, unsupported lsof 3.08
sources on UnixWare 1.x without NFS or CDFS support.

Installed support supplied by Allan Nathanson
<ajn@apple.com> for the Darwin "Gold Master" release,
Mac OS X 10.0 (aka Darwin 1.3 in its public source
version). Added Allan's CVS repository suggestions
to the script that gets additional header files
from an open source repository.

Tested an HP-UX 11.11 kernel patch from Sailu
Yallapragada that enables reporting of TCP/IP
information for telnetd processes that use the
telnet multiplexor. I don't yet know the kernel

patch ID.

Made the Solaris inclusion of <inet/mi.h> conditional
on the Solaris version. (It's apparently not needed
at 2.6 and above.) Bill Watson <bill.watson@uk.sun.com>
brought this to my attention.

Added alternate Linux 2.4.x
lock extent test, supplied
by Jim Mintha <jim@ic.uva.nl>.

Rearranged the lines and pre-processor tests in
regex.h, lib/regex.c, and lib/snpf.c so that unifdef
can be used to eliminate copyright and GPL statements
when the files aren't being used for a particular
dialect. (USE_LIB_* definitions in a dialect's
machine.h header file determine if one or more of
those three files are to be used.)

Added preliminary support for Solaris 8 with VxFS
3.4. This support will be refined as I get
information from Veritas about how they will
distribute the kernel header files lsof needs.
Those header files were omitted from the standard
VxFS 3.4 distribution. Technical assistance and
testing were provided by Calle Dybedahl <cdy@algonet.se>,
Gary Millen <gary.millen@veritas.com>, Rainer Orth
<ro@TechFak.Uni-Bielefeld.DE>, Peter C. Vernam
<pvernam@draper.com>, and Donna Yobs
<Donna.Yobs@veritas.com>

Tested on FreeBSD 4.3-STABLE.

Dropped the *claim* that
lsof works on UNIX dialects
where I no longer have test systems: BSDI 2.1,
3.[01] and 4.0; DEC OSF/1, Digital UNIX and True
64 UNIX 2.0 and 3.2; FreeBSD 2.1.[67], 2.2[.x],
3.[012345] and 4.[01]; HP-UX 10.20; NetBSD 1.[234];
SCO OpenServer 5.0.5; and SCO UnixWare 7.0

Tested on Solaris 9 BETA, s81_36.

4.57 July 19, 2001
Help (-h) and version (-v) output now have URLs
for the newly created and timeliest lsof FAQ
(00FAQ in the lsof distribution) at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/FAQ

and the man page for the current lsof distribution
at:

ftp://lsof.itap.purdue.edu/pub/tools/unix/lsof/lsof_man

Based on a report from Steve Laubscher
<slaubs@woodward.com>, modified dlsof.h for PTX
4.6[.1] to avoid a temporary dnlc_t definition
needed at PTX 4.5.1.

Corrected test for old Linux kernels in Configure.
Henri Karrenbeld <ishtar@cal044202.student.utwente.nl>
brought the error to my attention. Limited Linux
claims to 2.1.72 and
above in the documentation.

Improved HP-UX 11 Configure stanza and stream socket
handling.

Constructed a work-around for the HP-UX 11 optional
OnlineJFS package. The work-around sadly requires
lsof to have a private version of the vx_inode
structure, since the OnlineJFS package doesn't
update <sys/fs/vx_inode.h>. Troyan Krastev
<Troyan.Krastev@ricoh-usa.com> brought the bug to
my attention and Michael Bracewell
<michael@ra.TSS.PeachNet.EDU> provided a test system
where I developed the work-around.

Added locale support to lsof's isprint() test,
based on a suggestion from Dan Mercer <damercer@mmm.com>.
Lsof will use setlocale(), when that function and
its supporting <locale.h> header file are available.

Added OpenBSD 2.9 support.

Based on a report from Aaron Rhodes <arhodes@psionic.com>
and with testing help from Aaron, made the lsof
4.56 revision compile and work on OpenBSD 2.6.
While that OpenBSD version is no longer supported,
Aaron's report
exposed a Configure script bug
affecting OpenBSD versions lsof does support.

Updated for FreeBSD 5.0-CURRENT. Szilveszter Adam
<sziszi@petra.hos.u-szeged.hu> help test. The lsof

FreeBSD ports packager, David O'Brien <obrien@FreeBSD.org>,
assisted.

Tested on AIX 5.1. Loc Le and Nasser Momtaheni of
IBM provided test systems.

4.58 September 13, 2001
Added options to safestrprt() and safestrprtn() to
surround the string with "" and to suppress the
printing of an ending '\n'. Use of these functions
in device cache file error message reporting answers
a suggestion for better error reporting from John
Jackson <jrj@purdue.edu>.

Fixed a Solaris 2.6 and above problem related to
searching for "large" (O_LARGEFILE) files by name;
lsof was using the wrong version of [l]stat(2).
The bug was reported by Daniel Trinkle
<trinkle@cs.purdue.edu>.

Added AIX 4.1.4 and above XTI socket support.

Added OSR Xenix Shared Data and Semaphore file type
support
with modifications supplied by Bela Lubkin.

Updated OPENSTEP support with modifications from Carl
E. Lindberg <lindberg@clindberg.org>. The changes
enable the correct reporting of executable and
library open files ("txt" type).

Limited claims of OpenServer support to the versions
where I currently test, 5.0.4 and 5.0.6. (Lsof
probably works on 5.0.5.)

Enabled processing of -C option for PSTAT-based HP-UX
lsof.

Enabled and tested on FreeBSD 4.4.

Corrected a file system test example in 00QUICKSTART,
based on a report from Jun Biao WANG <wangjunb@cn.ibm.com>.

Made available for re-distribution a user-contributed
port of lsof 4.51 to Reliant UNIX 5.45. Thomas
Mauterer <Thomas.Mauterer@philosys.de> contributed
the port.

4.59 October 20, 2001

With the closing of the Sequent Synergy Links Lab by IBM, terminated lsof support for PTX. The last tested PTX lsof revision, 4.58, is available on lsof.itap.purdue.edu in .../lsof/OLD/src.

Adjusted for FreeBSD 5.0-CURRENT NFS header file changes, based on a report from Jos Backus <josb@cncdsl.com>.

Corrected a bug in the way Linux lsof identifies the owner of a process. Lionel Cons <lionel.cons@cern.ch> reported the problem and tested the fix. Added code to avoid stat(2) calls on regular Linux files whenever possible. Lionel reported the need to do this (AFS files) and tested the new code.

Added new output field for raw device number in hex. The field is identified with 'r'. This field is NOT selected when -F or -F0 is specified so that its appearance won't disturb existing scripts that process field output.

Added support for OpenUNIX 8. A test system was provided by Larry Rosenman <ler@lerctr.org>. Matthew Thurmaier <matt@compclass.com> and many people from Caldera provided technical assistance.

Added an additional UVM test to the NetBSD Configure stanza. Andrew Brown <atatat@atatdot.net> supplied the test; it recognizes NetBSD 1.5Y UVM changes to the vnode structure recently committed by Chuck Silvers.

Applied Configure and get-xnu-headers.sh script changes suppled by Allan Nathanson <ajn@apple.com> for Darwin 1.4.

Added for Bela Lubkin <belal@mammoth.ca.caldera.com> OSR-specific environment variables to supply values to the Configure script. The variables are described in 00XCONFIG.

Added an IP version selector to the -i option parameters.

4.60 November 9, 2001
Added special handling to and corrected bugs in
the matching of IPv4 in IPv6 addresses to -i6:<...>
selectors.

Made 00FAQ corrections and updates, based on
discussions with Igor Schein <igor@txc.com>.

Modified Configure script to detect a 64 bit capable
gcc compiler and permit it to be used to build 64
bit (PA-RISC 2) lsof for HP-UX 11.00. Tested with
HP's gcc package, which Rich Rauenzahn of HP kindly
installed on a test system at HP. Stefan Marquardt
<stefan.marquardt@hagebau.de> helped test.

Made
lsof's method of killing its child process
more robust, based on a suggestion from Bela Lubkin
<belal@caldera.com>.

Modified all dialect Makefile segments to accept
select -v #define's from the environment -- a
builder's comment, host, logname, system information
and user name. This was done for Bela Lubkin, so
he can "tune" the -v output when he packages lsof
in the upcoming Caldera OSR 5.0.7 release.

Changed Perl scripts in scripts/ to put the lsof
path consistently in $LSOF. Also added a fix from
Bela Lubkin to scripts/big_brother.perl5 that allows
it to tolerate SCO OSR "ago" clauses in open UDP
file information. Strengthened emphasis in
scripts/00README that the scripts are examples that
shouldn't be expected to run on all UNIX dialects
without modification.

At Bela Lubkin's suggestion changed the device
cache file format examples in 00DCACHE and 00FAQ
to avoid "%U%". That's an SCCS escape sequence.

Added support for OpenBSD
3.0.

Added +DAportable to CFLAGS for 32 bit HP-UX 11.
Amir Katz <Amir_Katz@bmc.com> suggested the addition.

4.61 January 22, 2002
Updated field output example Perl scripts in the

scripts/ subdirectory to discover the lsof path,
starting at .. and proceeding through the PATH
environment variable's directories.

Added minor OSR Configure script fixes, provided
by Bela Lubkin <belal@caldera.com>.

In response to a report from Joshua Wright
<Joshua.Wright@jwu.edu> modified NetBSD and OpenBSD
Configure stanzas and sources so that lsof can be
built when there is no system source tree (e.g.,
/usr/src/sys).

In response to a report from Peter Valchev
<pvalchev@openbsd.org> improved the UVM test in
the OpenBSD Configure stanza.

Updated Configure script to recognize FreeBSD 4.5.
Updated for FreeBSD 5.0 procfs and pseudofs changes.

Updated HP-UX stanza to see if the compiler named
in the LSOF_CC environment variable is the bundled
compiler. If
it is, "-O" is omitted from the
compiler flags.

Updated Digital UNIX 4.x and Tru64 UNIX error message
related to kernel name list failures. Added an FAQ
section about how a kloadsrv daemon failure can cause
knlist(3) to fail. The condition was reported by
Douglas B. Jones <douglas@gpc.peachnet.edu>

Based on a report from Mark W. Eichin <eichin@thok.org>
made Linux lsof capable of handling and reporting
file sizes greater than 32 bits.

Tested on Solaris 9 BETA-Refresh.

Corrected a bug in the matching of IPv4 addresses,
mapped in IPv6 addresses, to an IPv4 parameter to
an -i option.

Ported to 64 bit Power AIX 5.1 kernel with advice
from David Clissold <cliss@austin.ibm.com> and Marc
Stephenson <marc@austin.ibm.com>, and on a test
system provided by Loc Le <lple@us.ibm.com>.

4.62 March 7, 2002

Updated 00README to reflect the usefulness of gcc
for building AIX lsof. Documented a report from
Brian L. Gentry <BGentry@nationsrent.com> of success
on
AIX 4.3.3. I documented my success on 32 bit
Power AIX 5.1 and my lack of success on ia64 AIX
5.1 and 64 bit Power AIX 5.1.

Improved UnixWare >=7.1.1 reporting of UNIX socket
NAME field information for NonStop Cluster systems
with a patch provided by John Hughes <john@Calva.COM>.
Offered John's improvement as a patch to lsof 4.61.

Corrected bugs in handling of open files on block
devices by OSR lsof. The bugs were reported by
Bela Lubkin <filbo@deepthought.armory.com>.

Fixed bug in writing >32 bit device numbers for
block devices to the device cache file.

Added support for reporting block special nodes
not in /dev (or /devices). That required "like
device special" be changed to "like block special"
and "like character special". (00FAQ was updated.)

Based on a report from Peter Valchev <pvalchev@openbsd.org>
improved the definition of the source for NetBSD
and OpenBSD kernel symbols (the nlist() source
file). NetBSD now defaults to
getbootfile(3) if
it is available, /netbsd otherwise. OpenBSD now
defaults to /dev/ksyms if it is available, /bsd
otherwise.

Made possible compilation under BSD/OS (BSDI) 5.0
with changes to Configure, dialects/bsdi/dlsof,
dialects/bsdi/dproc.c and lib/rnmh.c. The changes
were suggested by Steven Hinkle <hinkle@bsdi.com>.
Note that these changes do not substantiate a claim
that lsof works on BSDI 5.0, because I haven't
tested it there.

Updated OpenUNIX private <sys/fs/memfs_mnode.h>,
based on a report from Larry Rosenman <ler@lerctr.org>
that it had been updated by Caldera patch OU800PK3.
Unfortunately the patch only corrects some of the
problems with the header file, so it is still
necessary to distribute a private patched version

of it with the lsof sources.

Applied a man page correction reported by Frederic Delanoy <max_ok@yahoo.com>.

Corrected cast bugs related to using the HP-UX bundled C compiler on HP-UX 11.11.

4.63 April 23, 2002

Added HPUX_BOOTFILE environment variable for use by the Configure script in determining HP-UX kernel configuration information -- e.g., the state of the ipis_s structure in the HP-UX 11 kernel. The change was suggested by Marc Bejarano <beej@alum.mit.edu>. Marc also suggested some changes to the HP-UX section in 00FAQ that discusses Configure's use of q4 for HP-UX 11.

Fixed a bug in the Solaris lsof file system matching code. It was not reporting that VCHR files in /devices were in / when /devices was in /, too.

Corrected bugs in device number, file size, file offset, and raw device number field output generation.

Added recognition of OpenBSD 3.1 to the Configure script with a suggestion from Peter Valchev <pvalchev@sightly.net>. Note that this change does not constitute a claim that lsof works on OpenBSD 3.1, because I haven't tested it there.

Built an automated test suite. (See 00TEST and the tests/ sub-directory of the lsof main directory). Bela Lubkin requested it. Dale Talcott, John Hughes, and Larry Rosenman helped me validate it on their systems.

During the development of the test suite I discovered the following lsof bugs or missing features, and corrected or supplied them.

* Corrected the reporting of locks for:
  o Digital UNIX 4.0d and Tru64 Unix 5.[01];
  o HP-UX 10.30 and 11.00;
  o OpenUNIX 8;
  o UnixWare 7.1.1.

* Enabled HP-UX 10.30 and 11.00 to report open NFS
file link counts.

* Corrected the reporting of UNIX domain socket
names for Apple Darwin, FreeBSD 4.5 and above,
NetBSD 1.4.1 and above, and for OpenBSD 3.0 and
above.

* Enabled HP-UX 11.11 to stat(2) large files.

* Fixed handling of combination 32 and 64 bit
device numbers in AIX 64 bit architectures.

Updated the AIX 4.3.3 NFS rnode recognition code,
first installed at revision 4.51. It looks like
some IBM update has restored a single rnode structure
independent of the machine
bit width.

Updated the NetBSD and OpenBSD sources so NetBSD
can process DTYPE_PIPE files, as OpenBSD was already
able to do.

Updated Darwin get-xnu-headers.sh script to reflect
information about a recent reorganization of the
Darwin CVS hierarchy, supplied by Allan Nathanson
<ajn@apple.com>.

Added defense against the standard I/O descriptor
attack.

4.64 June 26, 2002
Corrected some FreeBSD pre-processor directives.
David O'Brien <obrien@NUXI.com> pointed them out.

Updated lsof's main() function to: 1) close all
open file descriptors above 2 before starting; and
2) to set a non-interfering umask. Moved GET_MAX_FD
test from misc.c to proto.h, so that main() could
use it. Added multiple-include protection to
proto.h.

Moved FAQ's test suite Q's & A's to a more appropriate
section. Added a Q&A on HASSECURITY option and
its affect on searching for open files. (That was
already in the man page.)

Updated hpux/kmem/dnode.c for HP-UX < 11
compilation
with information from John Dzubera <Zube@CS.ColoState.EDU>.
While lsof doesn't support HP-UX < 11 any more, I
try to avoid disabling it there when possible, and
a locking fix for HP-UX >= 11 in lsof 4.63
inadvertently disabled compilation of lsof for
HP-UX < 11. Fixed long-standing bug in HP-UX 10.20
lock reporting.

Removed language from the test suite programs that
requires an ANSI-C compiler. This allowed the test
suite to be validated with cc and gcc on the un-
supported HP-UX 10.20.

At the suggestion of Manuel Bouyer <bouyer@antioche.eu.org>
switched NetBSD and OpenBSD lsof from using nlist()
to using kvm_nlist(). Made the same change for
BSDI, Darwin, and FreeBSD.

Validated test suite on OPENSTEP 4.2.

In response to a suggestion from Jeff Stoner
<jstoner@blackboard.com> enhanced support for the
FD list of the -d option to allow it to be either
an exclusion or inclusion list, using the '^' prefix
to denote exclusions.

Made
adjustments for FreeBSD 4.6 and 5.0-CURRENT.
Fixed a FreeBSD /etc/make.conf CFLAGS extraction
bug, reported by Kris Kennaway <kris@obsecurity.org>,
and new a bug in the fix, reported by Eric Cronin
<ecronin@eecs.umich.edu>

Added nullfs support for FreeBSD, NetBSD, and OpenBSD
at the request of Andrew Brown <atatat@atatdot.net>.

Modified all readmnt() functions to ignore mounted-on
directory names that don't begin with '/'.

Tested on NetBSD 1.6A and OpenBSD 3.1.

Upgraded to Solaris 9 FCS with two changes to the
BETA-Refresh support: 1) an adjustment to dnode.c
for a change in the so_so (sonode) structure; and
2) addition of Solaris 9 FCS specific DNLC code.
David Comay <David.Comay@Eng.Sun.COM> sent me the

dnode.c change and Casper Dik <Casper.Dik@sun.com>
helped with the new DNLC support code.

Applied OpenUNIX changes that permit lsof to compile
and run on the upcoming 8.0.1 release. The changes
were supplied by Robert Lipe <robertl@caldera.com>.
Larry
Rosenman <ler@lerctr.org> provided a test
system.

Added Solaris fd file system support.

4.65 October 10, 2002
Adjusted for change in FreeBSD 5.0-CURRENT inode
structure, reported by David O'Brien <obrien@NUXI.com>.
Adjusted for changes in FreeBSD 5.0-CURRENT <sys/vnode.h>.
One change was reported by Anders Nordby
<anders@FreeBSD.org>. Adjusted for FreeBSD 5.0-CURRENT
on sparc64 architecture.

Enhanced the error reporting of Solaris lsof when
it detects a kvm_open() failure, and added a 00FAQ
entry on the cause, based on a report from Peter
J. Bertoncini <pjb@anl.gov>.

Enabled compiling of lsof for NetBSD 1.5 with the
NULL file system, using a patch from Andrew Brown
<atatat@atatdot.net>.

Removed a hack in the LTbigf test program that was
once needed when it was compiled on Solaris 9 BETA-
Refresh with gcc. The hack isn't needed on Solaris
9 FCS. Janet Hempstead <jan@library.carleton.ca>
brought the need for this change to
my attention.

Applied a patch, supplied by Andrew Brown
<atatat@atatdot.net>, that updates lsof for NetBSD
version 1.6F. Corrected handling of the NetBSD
nullfs.

Updated to BSDI BSD/OS 4.3 on a test system kindly
provided by Terry Kennedy <terry@tmk.com>.

Updated to FreeBSD 4.7.

Updated to Apple Darwin 1.5, 5.x and 6.x with
patches supplied by Allan Nathanson <ajn@apple.com>.

The patches include IPv6 support.

Updated Configure to use the -bnolibpath loader option when building lsof on a PowerPC, running AIX 5 or greater. Valdis Kletnieks <Valdis.Kletnieks@vt.edu> informed me this was needed. Lsof for AIX 5.x was initially developed on the IA64, where -bnolibpath can't be used and I didn't think to restore it to PowerPC loads when AIX 5.x became available for that architecture.

Updated to UnixWare 7.1.3 on a test system provided by Larry Rosenman <ler@lerctr.org>. Removed claims that lsof works on OpenUNIX 8.0.1, because UnixWare 7.1.3
is the release name of OpenUNIX 8.0.1.

Based on a comment that his e-mail address was wrong in the lsof distribution from Kenneth Stailey <kstailey@disclosure.com>, removed all e-mail addresses from lsof documentation files except this one, 00DIST. The addresses in 00DIST are used to send revision release notices to those who contributed to a revision, but the addresses in this file for previous revisions and in other documentation files sometimes grow stale and are never validated.

4.66 December 22, 2002

Acquired Solaris 7 and 8 test systems, courtesy of John Dzubera <Zube@CS.ColoState.EDU>. Updated 00TEST and tests/TestDB accordingly.

Clarified FreeBSD 5.0 architecture claims at the suggestion of David O'Brien <obrien@NUXI.com>. Also implemented David's suggestion to change Intel to x86.

Installed changes to DNLC handling in OSR lsof in preparation for handling changes in the OSR 5.0.7 DNLC cache. Information about the changes and patches
to handle them were supplied by Bela Lubkin <filbo@deepthought.armory.com>.

Upgraded True 64 UNIX support to the 5.1B release on a test system provided by Berkley Shands <berkley@cse.wustl.edu> Had to used relaxed ANSI compilation because of an error in a system header

file and other lsof source usages.

Implemented the HASNOSOCKSECURITY compile-time
option. When it and HASSECURITY are defined, lsof
will be built to list only the user's open files,
but will also list anyone else's open socket files,
provided the "-i" option selects their listing.
Updated the Customize script to ask about setting
HASNOSOCKSECURITY. Left it undefined in all dialect
machine.h header files. This change was requested
by Kenneth Stailey <kstailey@speakeasy.net> for
use with ntop.

Added support for OpenBSD 3.2 and its kernel trace
file.

Improved lsof help (-h) and version (-v) information
reporting.

Fixed a FreeBSD 4.7 and above off-by-two UNIX domain
socket
path termination bug, reported by Ken Stailey
<kstailey@speakeasy.net>

4.67 March 27, 2003
Began the transition of the lsof ftp server host
name from vic.cc.purdue.edu to lsof.itap.purdue.edu.
That reflects Purdue organizational changes. This
first step makes the new name an alias to the old
one. The old name, vic.cc.purdue.edu, will remain
usable for an extended period.

Corrected a revision number reference in section
17.17 of 00FAQ on the appearance of Solaris negative
DNLC caching handing.

Updated 00FAQ discussion of compilers for 64 bit
Solaris.

Validated test suite for 64 bit Solaris 8 and gcc.

At the request of Alek O. Komarnitsky <alek@komar.org>
added the "+c <width>" option to enable optional
changing of the COMMAND column output maximum width
from the default to <width>. The default maximum
width remains CMDL, as defined in lsof.h.

Fixed three AIX kernel bit size detection bugs,

one in the AIX Configure script stanza,
the second
and third in the AIX dproc.c get_kernel_access()
function. The bugs were reported by Pierre-Yves
Fontaniere <pyf@cc.in2p3.fr>, who tested the fixes.

Added kernel event queue file support for FreeBSD,
NetBSD and OpenBSD. Andrew Brown <atatat@atatdot.net>
supplied the code.

Updated to AIX 5.2 on a test system provided by
Dale Talcott <dtalcott@purdue.edu>. Had to build
work-arounds for two missing AIX 5.2 header files,
<j2/j2_snapshot> and <proc/proc_public.h>. Corrected
an off-by-one UNIX socket addressing bug. Taught
AIX lsof to handle both jfs and jfs2 files at the
same time. Adjusted for an IBM mistake in the
sizing of the fdsinfo structure in <procinfo.h>
Toshiya Nakamura <TOSHIYAN@jp.ibm.com> helped test,

Updated to FreeBSD 4.8. Corrected another bug in
FreeBSD UNIX domain socket name handling.

Corrected gcc build problems on HP-UX 11i, reported
by Yuliy Minchev <yuliy@mobiltel.bg>.

Updated BSDI BSD/OS support to 4.3.1.

Augmented
a lock ID test on NetBSD to check if the
ID is an LWP pointer.

4.68 June 18, 2003
Enhanced Configure script's cleanup operations.

Added support for OpenBSD 3.3, based on a report
from Peter Valchev <pvalchev@sightly.net>.

Improved the description of the detached PGP
signature certificate file in the main lsof README
file, based on a suggestion from Diana Stockdale
<diana@mpl.ucsd.edu>.

Installed a work-around for FreeBSD 5.0-CURRENT on
Alpha to avoid a compiler register use complaint.

Corrected a 'c' option error message. Gnele
<blaadeleng@yahoo.com> reported the problem.

Upgraded EXT2FS and UFS support for NetBSD and
OpenBSD to handle new inode information, and the
fast UFS1 and UFS2 file systems.

With the help of Andrew Brown <atatat@atatdot.net>
determined the NetBSD snapshot (1.6F) at which
<sys/mount.h> could be included under _KERNEL, thus
eliminating the lsof netexport.h hack. The same
change applies to OpenBSD
versions 3.3 and above.

Applied a patch from Armin Gruner <ag@muc.de> that
corrects the use of the HASPROCFS definition in the
FreeBSD dialect sources.

Corrected spelling errors in 00FAQ and in the
generated 00.README.FIRST_<version> file of the
distribution archive. John Jackson <jrj@purdue.edu>
and Ray Phillips <r.phillips@jkmrc.uq.edu.au>
spotted and reported the errors.

Corrected a spelling error in a comment and incorrect
use of an alarm function in the LTsock test program.

At the suggestion of Stuart Anderson <sba@srl.caltech.edu>
added preliminary (and incomplete) SAM-FS file system
support to Solaris lsof. Completion awaits availability
of SAM-FS internals.

Fixed a Solaris device name printing bug, reported by
Ric Anderson <ric@tick.Telcom.Arizona.EDU>, only
visible when HASDCACHE is not defined. Ric helped
test the fix.

Fixed an AIX kernel bit size handling bug related
to the NFS node (rnode) structure.

Corrected a print_kptr()
function call error in the AIX
AFS code, reported by David Steiner
<david.r.steiner@Dartmouth.EDU>. Upon further reflection
and because I no longer have appropriate AIX AFS test
systems, disabled AIX AFS support in the Configure script
for AIX versions above 4.3.3.0 or AIX AFS versions above 3.5.

Added support for FreeBSD 5.1.

With advice from Allan Nathanson <ajn@apple.com> adjusted
the Darwin get-xnu-headers.sh script to access the kernel
header files needed by lsof from a new form of the Apple
open source repository.

Installed Linux and lsof library bug fixes and
improvements, supplied by Marian Jancar <mjancar@suse.cz>.
One Linux improvement handles mount strings that
have octal escapes in them, eg., \040 for embedded
blanks. Marian tested the changes.

4.69 October 16, 2003
Received and applied an OpenBSD patch from Peter Valchev
<pvalchev@sightly.net> that replaces a ctob() call with
a sysconf() call. Peter claims sysconf() is needed
for
OpenBSD on SPARC. (It is not needed for NetBSD on SPARC.)

With the upgrade of my only Solaris 7 test system
to, Solaris 8, dropped the *claim* that lsof works
on Solaris 7. That doesn't mean it won't work
there, so those who want lsof for Solaris 7 probably
should be able to build it there and it probably
will work there.

Revised lsof's DNLC handling for BSD derivatives,
including: BSDI; Darwin, DEC OSF/1, Digital UNIX
and Tru64 UNIX; FreeBSD; NetBSD; and OpenBSD. The
latest NetBSD distribution's dropping of the vnode
capability ID (v_id) required the revision.

Adjusted to the latest FreeBSD 5.1-CURRENT.

Added NetBSD support for using kvm_getproc2().

Added a patch from Andrew Brown <atatat@atatdot.net>
to handle NetBSD enum conflicts and changes in the
<miscfs/kernfs/kernfs.h> and <miscfs/procfs/procfs.h>
header files.

Added a "#define _KERNEL" to the AIX dnode2.c source
file for compatibility with a new <j2/j2_inode.h>
AIX 5.2 header
file version. The addition was
supplied by Dick Dunbar <Dick.Dunbar@Siebel.com>
and was offered as a patch to lsof 4.68/

Added support for a second type of Solaris SAMFS.

Stuart Anderson <sba@srl.caltech.edu> provided the
support. SAMFS support in lsof SOLARIS remains
scanty, because Sun won't release any details on
its kernel structures.

Dropped the *claim* that lsof works on AIX 4.3.3,
because I was unable to test it there. That doesn't
mean it won't work there, so those who want lsof
for AIX 4.3.3 probably should be able to build it
there and it probably will work there.

Updated for Solaris 10 on test systems provided by
Mike Miscevic <miscevic@hotpop.com>. Casper Dik
<casper@holland.sun.com> provided significant help.
During the Solaris 10 port found and fixed an lofs
handling bug that prevented reporting of open lofs
file lock status.

Updated the DNLC test, LTdnlc, to provide a possible
explanation about file systems on which the
test
might fail.

Modified the procedure for obtaining missing Darwin
XNU kernel header files. The new one requires more
manual intervention, but is the best that can be
done with the way Apple open sources are now
organized. 00FAQ explains the new procedures for
those not used to downloading Apple open source
files.

Added support for Apple Darwin 7.0 (Mac OS X 10.3)
with patches supplied by Allan Nathanson <ajn@apple.com>.
Dropped the *claim* that lsof builds and works on
Apple Darwin below 6.0.

Validated lsof on FreeBSD 4.9, using a test system
provided by Ben Lewis <bl@purdue.edu>.

Validated lsof on FreeBSD 5.1-CURRENT for Amd64.
David O'Brien <obrien@FreeBSD.org> provided a test
system.

Changed the NetBSD Configure stanza to do header
file searches in /usr/include by default. The
LSOF_INCLUDE and NETBSD_SYS environment variables
may still be used to specify other search paths.
Discussions with Andrew Brown and Wolfgang S.

Rupprecht
<wolfgang@wsrcc.com> led to the change.

4.70 January 16, 2004
Improved shell-portability of the linux stanza of
the Configure script with a patch from Paul Jarc
<prj@po.cwru.edu>.

Added a "silent" rule to tests/Makefile for Paul.
Updated, extended and clarified the test suite
documentation in 00FAQ and 00TEST.

Fixed Solaris 10 dlsof.h typo, reported by Mike
Miscevic <miscevic@hotpop.com>. The typo prevents lsof
from loading cleanly in Solaris 10 builds past 40.

Fixed a Solaris HSFS node number reporting bug and
added a structure definition work-around for Solaris
10.

Converted PGP signing to GPG. My previous PGP key can
be used, but the gpg "--allow-non-selfsigned-uid"
option may have to be used when it is imported into a
GPG key ring.

Added bz2 compression.

Updated for OpenBSD 3.4.

Added a work-around for a missing header file in the
s10_44 Solaris 10 build.

Added support for FreeBSD 5.2-BETA and 5.2-CURRENT.

Updated Linux AX25
support with modifications supplied
by Lutz Poetschulat <dl9cu@db0zwi.de>.

Added raw IPv6 support to Linux lsof.

Improved handling of parameters after "-i@".

Improved file name test in LTdnlc.c.

Added loop count controls to the reading of Solaris
lock chains. The change was implemented as a result of
a report from Steve Gonczi <steve@relicore.com>.

Based on a report from John Jackson <jrj@purdue.edu>, enabled a Solaris 10 <sys/lgrp.h> work-around for Solaris 9, too. (Patch 112233 installs an lgrp.h on Solaris 9 that needs the work-around.)

With help from Andrew Brown <atatat@atatdot.net> and John Heasley <heas@netbsd.org> added log-structured file system (LFS) support for NetBSD and OpenBSD.

Added AMD64 to the list of FreeBSD 5.x-CURRENT supported architectures. FreeBSD.org provides a test system, courtesy of (I believe) David O'Brien <obrien@FreeBSD.org>.

Added a cast to lseek() in the HP-UX /dev/kmem-based kread() function to make
it work properly with the
bundled HP C compiler.

4.71 March 11, 2004

Added text file support to Apple Darwin lsof and enabled the lsof executable portion of the LTbasic test. Added support for Darwin kernel queue, POSIX semaphore and POSIX shared memory files. Tested on Darwin 7.2 (aka Mac OS 10.3.2).

Added process_kqueue() function prototypes for FreeBSD, NetBSD and OpenBSD.

Picked some lint in AIX sources, lib/rnmh.c and tests/LTsock.c.

Added "-x [fl]" cross-over option, which enables +d and +D processing to cross over symbolic links and|or file system mount points. Discussion with Johan Lindquist <johan@smilfinken.net> and Eric Williams (aka The Ghost In The Machine) <ewill3@earthlink.net> on Linux news groups revealed the need for the option.

Updated support for UnixWare 7.1.4.

Added support for the optional reporting of socket options, socket states and TCP flags for most currently supported dialects. John Smith <lbalbalba@hotmail.com> and
Tristan Nefzger <tn@bhtrader.com> requested the information. The dialects and their versions for which this feature has become available include:

AIX 4.3.2 and 5.[12]
Apple Darwin 7.2
BSDI BSD/OS 4.3.1
Digital UNIX and Tru64 UNIX 4.0
FreeBSD 4.9 and 5.2
HP-UX 11 and 11.11 (aka 11i)
NetBSD 1.6ZH
OpenBSD 3.4
OPENSTEP 4.2
OpenUNIX 8
SCO OpenServer Release 5.0.6
Solaris 2.6, 8, 9 and 10
UnixWare 7.1.[134]

Modified the Configure stanza for HP-UX 11 with better q4 detection. Steve Bonds <3vhmxxm02@sneakemail.com> supplied the modification.

Applied a patch from Mike Miscevic <miscevic@hotpop.com> to enable lsof to compile with the zone support in the Solaris 10 s10_b51 release. Added information on lsof zone behavior to 00FAQ.

Added a "-z [z]" option to Solaris 10 lsof. It enables the listing of zone name and can also be used to select the listing of processes and their files
from specified
zones.

4.72 July 13, 2004
Corrected Solaris 10 ZONE column title display bug with a patch from Joep Vesseur <Joep.Vesseur@Sun.COM>. Joep's fix was offered as a patch to 4.71.

Based on a report from Jean-Pierre Radley <jpr@jpr.com> about an unexpected GNU uname Configure interaction on OSR, and working from information received from Bela Lubkin, changed the OSR Configure stanza to use /bin/uname instead of uname. Added an FAQ entry about Configure version detection problems.

Added the +m and "+m m" options in response to a dialog with Robert T. Brown <rbrown@netmentor.com>. The options allow the creation of a mount table supplement file which can be used on selected dialects to get device numbers when stat(2) and lstat(2) can't deliver them. (That's generally the result of an inaccessible

NFS server.) Currently the new options are supported
only on Linux.

Made cpumask_t typedef _KERNEL compensation for FreeBSD
5.2-CURRENT.
Refined it for 5.2.1-RELEASE with testing
help from Scott Ellentuch <tuc@ttsg.com>.

Added support for FreeBSD 4.10. Larry Rosenman
<ler@lerctr.org> kindly provided a test system.

Added support for NetBSD 2.0 with patches supplied by
Andrew Brown <atatat@atatdot.net>. Andrew also
provided two test systems.

Made handling of Linux maps file more robust, based on
a report from Jan Blunck <J.Blunck@tu-harburg.de>. As
a side benefit, made handling of generated stat(2)
information more flexible.

As a result of a discussion with Jason Fortezzo
<fortezza@mechanicalism.net>, adjusted lsof for Solaris
to obtain the maximum user name length from ut_name of
the utmpx structure, if <utmpx.h> exists.

Tested under OpenBSD 3.5.

Updated 00README information about using gcc (via the
Configure aixgcc abbrevisiation) to compile lsof on
AIX. Ann Janssen <ajanssen@nebook.com> made me aware
the information was out of date.

Added an AIX SIGDANGER handler
and some 00FAQ sections
on lsof memory usage after a discussion with Tom Qin
<tom.qin@citigroup.com> about lsof memory usage.

Added scripts/sort_res.perl5, contributed by Fabian
Frederick <fabian.frederick@gmx.fr>. The script
displays lsof output sorted by size and path name.

Improved handling of files on Linux NFS mount points
that use the root_squash option, based on discussions
with Paul Szabo <psz@maths.usyd.edu.au>.

Updated FreeBSD 5.2-CURRENT support, based on a problem
report from Filippo Natali <filippo@widestore.net>.

Corrected improper FreeeBSD 5.x-CURRENT #if condition,
reported by Kim Culhan <kimc@kim.net>.

Added a Configure script work-around for AIX 5.2 lsof
with JFS2, compiled by gcc >= 3.3. The work-around
was supplied by Florian M. Weps <fmw@hactrn.ch>.

4.73 October 21, 2004
Added an __XPG4_CHAR_CLASS__ #define before
#include'ing <ctype.h> on Solaris to restore lsof's
ability to display special characters such as acute-e.

Added
wide-character (e.g., UTF-8) support where
possible, prompted by a request from Kyungjoon Lee
<kjoonlee@gmail.com>. Some older dialects -- e.g.,
NetBSD 1.4.1 -- don't support wide characters, so the
wide character support is enabled by definitions in
each dialect's machine.h. Dialects with wide-
character support are listed in 00FAQ.

Make a FreeBSD 5.2-CURRENT adjustment for <sys/pipe.h>,
supplied by Sergey A. Osokin <osa@FreeBSD.ORG>.

Implemented a Linux feature request made by Jakub
Jelinek <jakub@redhat.com> that enhances lsof's ability
to locate UNIX domain sockets whose paths are named as
arguments. Jakub supplied suggested code.

Dropped *claims* that lsof works on AIX below 5.1, SCO
Dropped *claims* that lsof works on AIX below 5.1, SCO
Openserver 5.0.4, Tru64 UNIX 5.0, and UnixWare below
7.1.4. Lsof will probably build and work on those UNIX
dialect versions, but I no longer have any way to test
lsof on them.

Added support
for FreeBSD 5.3 and 6.0. The FreeBSD
5.3 support hasn't been tested.

Added FD test code that will allow dialect versions to
test FD option selections. Used the new code in the
PSTAT-based HP-UX lsof to enable it to avoid scanning
the mount table when its information is not needed.
The addition was made in response to a query from
Harvey Garner <Harvey.Garner@championusa.com> about
lsof performance in a busy NFS environment.

Upgraded lsof's AIX support level to AIX 5.3, based on
a report from Dick Dunbar <Dick.Dunbar@Siebel.com>. (I
have not tested lsof under AIX 5.3.) Based on Dick's
recommendation and local testing changed the C for AIX
version 6 and higher -qmaxmem option value to -1.

Made LSOF_AR environment variable more useful and
documented it in 00XCONFIG.

Corrected the use of sum(1) to generate signatures for
the lsof distribution and binaries to match the
documentation that claims it is sum -r output. Jin
Guojun <jin@george.lbl.gov>
noticed and reported the
problem.

Tested under OpenBSD 3.6.

Added checksum and GPG certificate files for the bz2,
gz and Z lsof distribution archives. The new files
reside with the distribution archives and supplement
the signature information already inside the archives.

Validated on Solaris 10, i8xpc, build s10_63.

4.74 January 17, 2005
Fixed a Solaris segment fault bug on systems that lack
a /dev/allkmem device. Offered the fix as a patch to
lsof 4.73. The bug was reported by Donald Zoch
<donald.zoch@amd.com>.

Updated lsof for FreeBSD 6.0 and higher for a change in
<sys/vnode.h>, based on a report from Sergey A. Osokin
<osa@FreeBSD.ORG>. Made the update available in a 4.74
'A' edition pre-release.

Filed an HP bug report about missing pstat(2) CWD info
for LOFS on HP-UX 11.11 and higher. The missing CWD
info was noticed by Ermin Borovac <e.borovac@bom.gov.au>.
Added info to 00FAQ about the problem, which can cause
the lsof test suite's
LTbasic test to fail.

Updated the q4-generated tcp_s.h in the lsof
distribution and added socket option support for HP-UX
11.00. Erwin Reyns <ereyns@europarl.eu.int> helped
test.

Updated for Solaris 10, build s10_69, with a patch
supplied by Mike Miscevic <miscevic@hotpop.com>.

Added v_path support to Solaris 10 lsof. That relieves
it of having to read and decode the kernel DNLC, and
delivers full paths more reliably.

Added specialized NFS4 support to Solaris 10 lsof.

Applied Solaris 10 patches to lsof supplied by Casper
Dik <casper@holland.sun.com>.

Updated lsof for NetBSD 2.99.10 and tested it on a
system provided by Andrew Brown <atatat@atatdot.net>.

Added support for the FreeBSD 6.0-CURRENT f_vnode
pointer in the file structure.

Added BSDI, FreeBSD, NetBSD and OpenBSD support for the
*effnlink member of the inode structure. This makes
the lsof LTnlink test run faster on all modified
dialects and correctly on OpenBSD.

Added
ptyfs support for NetBSD, using modifications
provided by Andrew Brown.

Changed the netbsd Configure stanza to look by default
for system header files in both /usr/include and
/usr/src. (The NETBSD_SYS environment variable can
still be used to select an alternate for /usr/src.)

Corrects two FreeBSD 4.10 RPC/XDR type definitions.

Added an FAQ Q&A about setuid and setgid restrictions
in HP-UX 11.11. The information in the answer was
supplied by Frank Sanders <frank.sanders@siemens.com>.

Added abbreviations for AXI FCIO and FSNAPSHOT file
flags. Holger VanKoll <Holger.VanKoll@swisscom.com>
reported the missing FCIO.

Adjusted lsof's private AIX 64 bit rnode structure for
64 bit AIX 5.2 systems. (IBM doesn't distribute a
correct <nfs/rnode.h> for it.)

Corrected a Linux socket inode printing bug reported by
Igor Schein <igor@txc.com>.

Updated for FreeBSD 4.11. The support compiles but
hasn't been tested.

Back-ported a FreeBSD 6.0-CURRENT
fix to FreeBSD
5.3-RELEASE-p1. That was done to solve a compilation
problem reported by Radko Keves <rado@daemon.sk>.

4.75 May 16, 2005
Dropped the *claim* that lsof works on DEC OSF/1 and
Digital UNIX, since my last 4.0 test system has been
removed. The last tested distribution of lsof on DEC OSF/1
and Digital UNIX was revision 4.74. It has been archived
on lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

Added negation forms to the values in the -g (PGID) and
-p (PID) lists. Negated PGID and PID values, like
negated UID or login name values, are applied without
ORing or ANDing and take effect before any other
selection criteria are applied.

At the request of Marcin Gozdalik <gozdal@gmail.com>
added a -X option for Linux. The option inhibits the
reading of the /proc/net/tcp* and /proc/net/udp*
files.

Based on a report from David Gutierrez
<davegu1@hotmail.com> changed DEC OSF/1 process table
allocation to request memory in smaller
increments.

Based on a report from jayjwa <jayjwa@atr2.ath.cx>
updated the Customize script to use "tail -n 1" where
possible.

Enabled support for FreeBSD 5.4.

Improved the BSDI, FreeBSD, NetBSD, OpenBSD and Solaris
kvm_open() and kvm_openfiles() error messages.

Enabled support for NetBSD 2.99.12.

Improved HP-UX Configure stanza with help from Piet
Starreveld <pstarrev@csc.com>. Picked some lint Piet
found.

Enabled IPv6 support for HP-UX > 11. Piet Starreveld

helped test it on 11.23, among others.

Updated for HP-UX 11.23 on the ia64 architecture.

Updated to latest FreeBSD 6.0-CURRENT, using a test system provided by Andrzej Tobola <ato@iem.pw.edu.pl>.

Added support for SCO OSR 6.0.0 and UnixWare 7.1.4 with help from Richard at SCO.

Corrected a Linux bug in NFS handling, reported by Karel Zak <kzak@redhat.com>. Karel supplied a patch.

Improved the code for accessing an AIX 3.2 and higher sockaddr_un structure, thus eliminating a segmentation fault
possibility.

Updated for AIX 5.3.

Added preliminary (DEBUG) support for the AIX SANFS file system.

Fixed a bug in the Solaris 10 processing of the vnode's v_path pointer with code supplied by Edward Jajko <ejajko@portal.com>. The fix was offered as a patch to 4.74.

Dropped support for OpenUNIX 8, since a test system is no longer available. Archived an OpenUNIX-only distribution of the last revision (4.74) tested on OpenUNIX in pub/tools/unix/lsof/OLD/src.

Tested under Openbsd 3.7.

Tested under Darwin 7.7.0.

Enabled building on amd64 Solaris 10 with hints from Marc Aurele La France <tsi@ualberta.ca>. Marc provided a test system.

Supplied a missing quote in the FreeBSD Configure stanza. Carl Cook <Info@quantum-sci.com> reported the problem.

Removed "-O" option from tests/Makefile so that the HP-UX bundled compiler won't complain.

4.76 August 30, 2005
Corrected an example and spelling errors in man page.

Updated
for Apple Darwin 8.x with changes supplied by
Allan Nathanson <ajn@apple.com>. Allan also provided a
test system.

Completed documentation of CLRLFILEADD in all machine.h
files.

At the request of Chris Markle <cmarkle@sendmail.com>
added partial listen queue length to socket options
displayed when -Tf is specified. Partial queue length
is not reported for all dialects. (00FAQ lists the
ones where it is reported.)

Updated for FreeBSD 7.0 with information supplied by
Andrzej Tobola <ato@iem.pw.edu.pl>.

Updated Solaris VxFS support for VxFS versions 4 and
above with technical advice from Craig Harmer
<craig_harmer@symantec.com>, Gary Millen
<gary_millen@symantec.com> and Chuck Silvers
<charles_silvers@symantec.com>. Testing help was
provided by Michael Antlitz <mantlitz@prophasys.com>,
Steve Ginsberg <steve@dhapdigital.com> and Kenneth
Stailey <kstailey@yahoo.com>.

Fixed a Solaris address space map processing bug.
Janardhan Molumuri <mjanardhan@gmail.com>
reported the
bug and help me identify it. Made the fix available as
a patch to 4.75.

Added support for Solaris 10 port and CTFS files. The
CTFS support is imcomplete, because I don't know how
to get inode number, size and link count. (There's
a new 00FAQ entry about that.)

Investigated a report from Christopher J Warweg
<warwegc@GAO.GOV> that the CHECKSUMS for the lsof 4.75
binary for 64 bit Solaris 8 was incorrect. It was my
packaging error. I rebuilt and repackaged the binary.

Enabled support for Linux map file names with embedded
spaces.

4.77 April 10, 2006
Added -X option support for Solaris 10 and above. When
-X is specified lsof will report cached v_node path
names for unlinked files, followed by "(deleted)".
Improved cached vnode path name handling by adding
"(?)" to the end of path names of questionable accuracy.
Updated 00FAQ to reflect these changes.

Updated for FreeBSD 7.0-CURRENT.

Fixed name addition
spacing bug, reported by Stuart
Anderson <anderson@ligo.caltech.edu>. Also updated
Solaris 10 SAMFS support at Stuart's request.

Added missing "break;" and another HASSTATVFS test to
the NetBSD and OpenBSD dnode.c. Bill Behr
<bbehr@networkstoragecorp.com> reported those needs.

Fixed an HP-UX 11 file descriptor "chunk" size problem,
reported by Per Allansson <per@appgate.com>. Per helped
devise the fix and tested it. This fix was offered as
a patch to lsof 4.76.

Updated for FreeBSD 6.0-STABLE and FreeBSD
6.1-PRERELEASE.

Updated scripts/sort_res.perl5 with changes supplied by
Frederick Fabian <fabian.frederick@skynet.be>, the
author of the script.

Corrected +|-M man page documentation error, reported
by Roger Cornelius <rac@tenzing.org>.

Improved FreeBSD user device random seed generation in
response to a problem report from Danny Braniss
<danny@cs.huji.ac.il>.

Eliminated three syntax error bugs and other compiler
complaints from the
PSTAT-based lsof. H. Merijn Brand
<h.m.brand@xs4all.nl> reported the problems and tested
the fixes.

Eliminated compiler complaints in the test suite.

Investigated problems with the building of lsof on
PA-RISC HP-UX 11.23, based on a report from John

Orndorff <John.Orndorff@sungard.com>. Found that
neither the HP bundled C compiler nor gcc would build
lsof, but the the HP unbundled ANSI C compiler would.
Concluded that HP bundled C compiler can't handle
<gssapi/gssapi.h>. Devised a work-around to gcc's
omission of the rpcent structure definition of
<netdb.h> that allows it to compile lsof's print.c, but
the resulting binary doesn't run reliably. Documented
the situation in 00FAQ.

Changed reporting of unknown file types. The number of
an unknown type is now reported as four octets. The
change was made in response to a Linux lsof bug report
from Karel Zak <kzak@redhat.com>.

Dropped the *claim* that lsof works on BSDI BSD/OS
since my last test
system has been removed. The last
tested distribution of lsof for BSDI BSD/OS was
revision 4.76. It has been archived on
lsof.itap.purdue.edu in pub/tools/unix/lsof/OLD/src.

As a result of discussing the lsof source tar's MD5
checksum with Andrew Bell <andrew.bell.ia@gmail.com>,
changed the description of a suitable MD5 tool in the
lsof distribution's documentation to name the openssl
"dgst" command.

Enabled compilation on Solaris 10 1/06 with a fix sent
by Jason Fortezzo <fortezza@mechanicalism.net>. Made
the fix available as a patch to 4.76.

Adjusted to FreeBSD 5.5-PRERELEASE.

Corrected a bug in the lsof library's process_file()
function to enable the locating of AIX XTI sockets by
their TCP/IP address values. The bug was reported by
Michel Dubois <Dubois@sears.ca>.

Based on a bug report from Karel Zak <kzak@redhat.com>
added command name length checking to as many dialects
as possible (Linux for Karel) for the "-c c" option.

Updated
for OpenBSD 3.[89]. Tested the 3.9 update on a
system provided by David Mazieres. I have not tested
on OpenBSD 3.8, but David reports lsof 4.76 worked
there.

Ended regression testing of lsof on 32 bit Solaris 8
with the ending of access to a test system. Lsof
continues to be tested on 64 bit Solaris 8.

4.78 April 24, 2007
Added more information to the lsof FAQ about missing
link counts and sizes on Linux files.

Simplified Linux stat() and lstat() usage.

Relocated #define's that prevent OpenBSD compilation on
systems without a /proc file system. Pieter Bowman
<bowman@math.utah.edu> reported the problem.

Added code to avoid processing Linux /proc/<PID>/maps
file entries with zero device and node numbers. Some
such entries now have names associated with them that
are not path names -- e.g., "[heap]", "[stack]" or
"[vdso]". Scott Worley <sworley@chkno.net> reported
lsof's mishandling of such entries.

Added SELinux security context support,
provided by
James Antill <james.antill@redhat.com>. I have not
tested this, but James and Karel Zak <kzak@redhat.com>
have.

Added the #include of <sys/types.h> to Solaris lsof to
enabled compilation on Solaris 10 6/06. Peter Harvey
Peter.Harvey@Sun.COM diagnosed the problem and supplied
a patch.

Added better support for JFS2 on AIX 5.2 and 5.3, based
on bug reports and help from Thomas Braunbeck
<BRAUNBEC@de.ibm.com> and Tom Whitty <TWHITTY@cerner.com>.

Documented that lsof supports AIX 5.3 only up through
maintenance level 1 (ML1).

Enabled Solaris lsof to locate the AFS vnode operation
address for OpenAFS 1.4.1. The fix was supplied by
Robert Jelinek <Robert.Jelinek@MorganStanley.com>.

Enabled support for Solaris 10 ZFS. If the necessary
ZFS header files aren't found, lsof offers the option
to drop ZFS support, to use internal, possibly
inaccurate structure definitions, or to supply a path

to the missing header files. Horst Scheuermann
<Horst.Scheuermann@uni-trier.de>
provided a development
system and helped test the support.

Corrected a typo in the man page, reported by Eric S.
Raymond <esr@thyrsus.com>.

Changed the spelling of macroes to macros in lsof
source and documentations files, based on a suggestion
from Josh Soref <timeless@gmail.com> and verification
with the OED.

The following dialects are no longer supported: 32 bit
AIX 5.2, HP-UX 11, OpenStep 4.2, Solaris 2.6, Solaris
8, True Unix 64 and UnixWare 7.1.4. Lsof may work on
them, but I no longer have test systems for them.
Support for OpenBSD ends at its version 3.9 for lack of
interest in the port.

4.79 April 15, 2008

********** IMPORTANT NOTE **********
*
* Lsof support has been reduced to the following *
* dialects: AIX, FreeBSD, Linux and Solaris, and *
* only in selected versions of those dialects. *
* The selected versions are listed in
this file *
* and in other lsof documentation. *
*
* I have made this move because of retirement *
* and because I no longer have many test systems *
* available to me. *
*
* Vic Abell *
*
****

Fixed a Solaris VXFS permission problem when accessing
the VXFS inode offsets. The bug was reported by
Gregory A. Ivanov <ivga@mts.ru>. Gregory tested the
fix.

Moved an #include <string.h> later in FreeBSD dlsof.h
to enable compilation on recent FreeBSD releases. The
change was supplied by Roy Marples <uberlord@gentoo.org>.

Improved Linux /proc file stream reading speed by applying an expanded version of a patch from Eric Dumazet <dada1@cosmosbay.com> that allocates a page size buffer to each stream. Improved TCP, TCP6, UDP and UDP6 hashing by determining the hash bucket count from the /proc/net sockstat and sockstat6 files. The improvement was suggested by Eric and he provided sample code. Eric also tested both improvements.

Modified Configure script to build lsof on FreeBSD 6.2. Tested it on a system provided by Larry Rosenman <ler@lerctr.org>.

Fixed a Linux maps file processing bug that prevented path names from having an embedded colon. James Lingard <jchl@arastra.com> reported the bug and helped with its fix.

Based on reports from Eric Dumazet and Samuel Thibault <samuel.thibault@ens-lyon.org> added support for the Linux 2.6.22 kernel's /proc/<PID>/fdinfo files -- i.e., file offset and flags. Samuel Thibault provided a test system.

Fixed a Linux UNIX socket memory leak, reported by Philip Shin <pshin@xceedium.com>. Phillip supplied the fix.

With generous assistance from HP added support for an HP-UX 11.23 patch that makes TLI/XTI socket address information available.

Fixed a header file problem for FreeBSD 6.2 on the Alpha architecture. The problem was reported by Pekka Honkanen <phonkane@cc.hut.fi>. Pekka tested the fix.

Based on a report and using suggested fixes from Karel Zak <kzak@redhat.com>, made these changes to Linux lsof: corrected a getpidcon() error message; insured that inode numbers are handled correctly for their unsigned long long type; and improved SELinux handling. At the request of Alon Bar-Lev <alonbl@gentoo.org> added the LINUX_HASSELINUX environment variable to enable or inhibit SElinux support unconditionally.

Updated Configure for FreeBSD 8.0-CURRENT and tested lsof on AMD64 there.

Added a patch provided by Oles Hnatkevych
<don_oles@able.com.ua> for FreeBSD systems where the root
file system is on a CD9660 device.

Added compensation for the disappearance of FMARK and FDEFER
from the FreeBSD 8.0-CURRENT <sys/file.h>.

Updated
FreeBSD lsof with ZFS support. Larry Rosenman
<ler@lerctr.org>, Erwin Lansing <erwin@FreeBSD.org>, Wesley
Shields <wxs@atarininja.org> and Dmitry Morozovsky
<marck@rinet.ru> provided test systems.

Fixed a socket file identification problem reported by
Pavol Rusnak <stick@gk2.sk>. Pavol also reported the
cause of the problem.

Added the ability to format the repeat mode marker line
with strftime(3), where the dialect supports the
localtime(3) and strftime(3) C library functions. The
addition was suggested by Mike Depot <mdepot@comcast.net>,
who also tested it. The addition required creating a new
main lsof source module, util.c, that contains functions
whose compilation conflicts with the general header file
tree defined by lsof.h and dlsof.h.

Based on reports from Andrei V. Lavreniyuk
<andy.lavr@reactor-xg.kiev.ua> and Pav Lucistnik
<pav@FreeBSD.org> updated the FreeBSD 7.0 and above
file lock handling to use new locking structures.
The
update requires a terrible hack to get a definition for
the lock owner structure from a kernel source module
into a local lsof header file.

4.80 May 12, 2008
Updated for a FreeBSD 7.0 and above byte level locking
change. The problem was reported by Conrad J. Sabatier
<conrads@cox.net>, who helped test the update. Wesley
Shields <wxs@FreeBSD.org> provided an 8.0-CURRENT test
system.

Propagated the FreeBSD 7.0 and above locking changes to
FreeBSD 6.x, based on a report from Edwin Groothuis
<edwin@FreeBSD.org>.

Added warnings for unsupported dialects or versions.

Added Linux support for the UDPLITE protocol. Eric Dumazet <dada1@cosmosbay.com> supplied a patch.

Added a missing quote to the Configure script's FreeBSD stanza.

Added a usage.o rule to the HP-UX PSTAT-based Makefile. I mistakenly deleted the rule at revision 4.79. The missing rule was reported by Kawaljeet Kaur <kawaljeet.malviya@gmail.com> who tested the corrected Makefile.

4.81 October 21, 2008

Updated the Darwin libproc sources with changes from Allan Nathanson <ajn@apple.com>. Tested them on a iMac mini, provided by Apple Inc.

Changed dummy declarations in library source files to eliminate complaints about unused variables and empty object files. This change may not work on dialects I can no longer test; it has been tested on some versions of AIX, Darwin, FreeBSD, Linux and Solaris.

At the request of Hal Brooks <hal@uga.edu> added support for Linux /proc/net/packet files. Hal tested it.

Added socket file only performance enhancements to Linux and PSTAT-based HPUX lsof.

Added htonl call around improper usage of INADDR_LOOPBACK; report from an Apple engineer forwarded by Allan Nathanson <ajn@apple.com>.

Adjusted for FreeBSD-8.0 change in device number handling. The adjustment should work for FreeBSD 5 and above, should the 8.0 change be propagated downward. The problem was reported by Pav Lucistnik <pav@FreeBSD.org>. An updated test system was provided by Erwin Lansing <erwin@FreeBSD.org>.

Reduced AIX support to version 5.3, since test systems with older versions are no longer available to me.

At the request of Marjo F. Mercado <mmercado@xceedium.com> and Phil Shin <pshin@xceedium.com> applied some speed improvements to lsof, particularly when the files of

interest are /Internet files -- i.e., selected with lsof's
"-i" option. Added a two new options to assist the
improvements: 1) "-c^<command>" to tell lsof to exclude the
named command(s); and 2) "-stcp|ud>:[^]state' to tell lsof
to include in its reporting or exclude ('^') from its
reporting Internet files in the named states (e.g., LISTEN,
^CLOSE_WAIT, IDLE, etc.) For the most part these changes
apply only to AIX, Darwin, FreeBSD, PSTAT-based HP-UX, Linux
and Solaris, since those are the only places I could test
them. They are controlled by the HASTCPUDPSTATE definition
in each dialect's
machine.h header file. Marjo and Phil
provided HP-UX 11.23 and 11.31 test systems.

Fixed a stat(2) problem on HP-UX 11.31 while testing the
speed improvements.

Adjusted for kernel header file changes in FreeBSD
8.0-CURRENT. Larry Rosenman <ler@lerctr.org> provided
a test system.

Added a warning for Solaris systems where VxFS node info
can't be obtained from the VxFS utility library. The
warning was requested by Tom Matthews <Tom.MATTHEWS@rbs.com>.

Corrected mishandling of file system path name arguments
that have trailing slashes, except, of course, the root
file system, "/". Allan Nathanson <ajn@apple.com> reported
the bug.

4.82 March 25, 2009
Corrected an over-zealous exclusion test that caused
lsof to report nothing when it was given no arguments
and built with HASSECURITY and HASNOSOCKSECURITY enabled.
Joshua Kinard <kumba@gentoo.org> reported the bug and
supplied information for reproducing it.

Based on a report from Dan Trinkle
<trinkle@cs.purdue.edu>
corrected use of <sys/utsname.h> for 32 bit Solaris 10
and above compilations. Simultaneously eliminated a
casting complaint in arg.c and updated Configure to use
the appropriate 64 bit compilation option (-xarch=v9 or
-m64) with the Solaris Sun C compiler.

Updated for FreeBSD 7.1-PRERELEASE with information
supplied by Larry Rosenman <ler@lerctr.org>.

Updated the Darwin libproc sources with changes from
Allan Nathanson <ajn@apple.com>. Tested them on a iMac
mini, provided by Apple Inc. Allan also provided man
page corrections.

Updated the FreeBSD Makefile to use the ${MAKE} variable
for ZFS dnode2.c module compilation, based on a suggestion
from Alexis Ballier <aballier@gentoo.org>.

Improved the Solaris VxFS library location test, based on a
suggestion from Jason Fortezzo <fortezza@mechanicalism.net>.
Jason tested the change.

Updated Solaris 10 ZFS support for ZFS version 4 and ZFS
pool version 10, using a test system
kindly provided by
Vladislav Nespor <vladislav.nespor@id.ethz.ch>. Renata
Maria Dart <renata@slac.stanford.edu> tested on ZFS
version 4, verifying that the update works there, too.
(ZFS pool version 10 is apparently the ZFS version shipped
with the 10/08 update to Solaris. The original ZFS
support targeted ZFS version 3.)

I still consider ZFS support in Solaris lsof a hack,
because it depends on a znode structure definition that
I developed using dbx. Sun is remiss in not distributing
the ZFS header files used to build the distributed kernel.

Because of the znode structure definition hack, I can't
guarantee that lsof ZFS support will work for any other
versions of ZFS.

Solaris 10: adjusted to a change in the way devices are
stored in the kernel; fixed a problem in zone handling;
and added rudimentary sharedfs support. Carson Gaspar
<carson@taltos.org> reported the device number problem,
provided a test system, and tested the changes. Peter
Vines
<psv2b@eservices.virginia.edu> reported the zone
handling problem and tested the fix.

Adapted to FreeBSD 8.0-CURRENT changes in device number
computation. Problem was reported by Erwin Lansing
<erwin@FreeBSD.org>. Larry Rosenman <ler@lerctr.org>
provided a test system.

Corrected Solaris Configure test for appropriate VxFS
library when using gcc to compile lsof.

Updated for loss of KAME IPv6 FreeBSD accommodations.

Adapted to FreeBSD 7.2. Made Configure script recognized FreeBSD 6.3.

4.83 January 18, 2010

Converted Solaris 10 and above ZFS support to use the CTF debugger library, libctf. Code was supplied by Robert Byrnes <Robert.Byrnes@deshaw.com>.

Corrected a typo in the testing of the LINUX_HASSELINUX environment variable in the Configure script. The error was reported by Mike Frysinger <vapier@gentoo.org>.

At Mike's request made Configure script accept LSOF_RANLIB (ranlib command), LSOF_CFGF (additional configuration flags) and
LSOF_CFGL (additional library specifications) from the environment.

Enabled complilation of Solaris 10 lsof after a recent Sun patch which changed the PC file system's structure. Peter Vernam <pvernam@draper.com> reported the problem and helped with the fix.

Made the sort of configuration CFLAGS in the CkTestDB script impervious to locale settings.

Ported to Solaris 11, using a test system kindly provided by David Day <dday76@gmail.com>.

Adjusted to the disappearance of <nfs/rpcv2.h> in FreeBSD 8.0-BETA1.

Changed Solaris node type lookup to a hashed method and added some ability for it to handle duplicate vnodeop names in /dev/ksyms.

Updated for FreeBSD 9.0-CURRENT. Andrzej Tobola <ato@iem.pw.edu.pl> provided a test system. Extends the fix to FreeBSD 6.0 and above via a Configure test and a compile-time definition. The need for the extension was reported by Erik Trulsson <ertr1013@student.uu.se>>

Made corrections to FAQ typographical
errors, suggested
by Josh Soref <timeless@gmail.com>.

Added __UCLIBC__ test to Linux dlsof.h so lsof would compile
on an Intel ARM XScale processor. The addition was provided
by Doug Kehn <rdkehn@yahoo.com>.

Added test for <utmpx.h> to FreeBSD configuration. Improved
its use in lsof.h. The changes were supplied by Martin Wilke
<miwi@FreeBSD.org>.

4.84 July 29, 2010
Fixed a man page nroff command error with a correction
supplied by Josh Soref <timeless@gmail.com>.

Made Configure script recognize FreeBSD 7.3. Larry Rosenman
<ler@lerctr.org> provided a test system.

Improved task support, initially for Linux only, with help
provided by Jerome Marchand <jmarchan@redhat.com> and
Miklos Szeredi <mszeredi@suse.cz>. The support includes a
new compile-time definition, HASTASKS, and a new run time
option, "-K" to select task reporting.

While adding help output support for "-K", reorganized the
printing of help columns to make it much easier to
add a new
option description.

Updated the Solaris PC file system structure patch in
revision 4.83 so it will compile with gcc.

Disabled the Solaris lgrp_root work-around in the Solaris
machine.h so it won't cause compilation problems on Solaris
11. It no longer causes compilation problems on my Solaris
9 and 10 test systems, but some older Solaris 9 and 10
versions may still need it, so the work-around was left in
the Sun machine.h and a FAQ entry was created about it.

Updated for Solaris 11 b134, using a test system kindly
provided by Carson Gaspar <carson@taltos.org>. Made
provisions for the next ZFS version. Added info about
the failure of the LTnlink test on ZFS file systems.

Corrected typo in Configure script, reported by Dmitry
Berezin <dmitryb@oit.rutgers.edu>.

4.85 September 27, 2011
John Dzubera <Zube@CS.ColoState.EDU> kindly provided a patched
Solaris 9 test system with the lgrp_root conflict and I was
able to devise an automatic

work-around for the conflict. The
special note in .../dialects/sun/machine.h was removed and
the 17.28.1 FAQ entry was modified to reflect the update.

Added a Solaris 11 work-around for a typedef problem with
<sys/mutex.h>. Carson Gaspar <carson@taltos.org> reported
the problem and supplied the work-around.

Added support for FreeBSD 7.4 and 8.2; tested on systems
provided by Larry Rosenman <ler@lerctr.org>.

Added support for 32 bit Solaris 11 lsof with mods supplied
by Jan Wortelboer <J.H.P.Wortelboer@uva.nl>.

Added Solaris 11 support for using an alternate genunix
location. Bill Goodridge <bill@its.brooklyn.cuny.edu>
reported the alternate location.

Added further Linux cross configuration support to lsof's
Configure script. The additional support was supplied by
Grant Erickson <erick205@umn.edu>. See the descriptions of
the LINUX_* environmen variables in 00XCONFIG for more
information. Tested lsof on Linux kernel 2.6.32 and picked
some
lint that surfaced during the test.

Added fixes and changes for Apple Mac OS X 10.6, provided by
Allan Nathanson <ajn@apple.com>. Allan also provided a test
system.

Tested on FreeBSD 6.4 i386, using a test system provided by
Terry Kennedy <TERRY@tmk.com>. Updated for recent FreeBSD ZFS
changes on an 8.2 amd64 test system also provided by Terry.

Changed documentation to indicate FreeBSD 7.x is no longer
supported, since I no longer have a test system.

Made some changes to the lsof man page, suggested by Navid
<evi1m4chine@googlemail.com>.

Added compensation for Solaris 10 systems that have patch
144488-10. The patch requires that the new header file
<sys/socket_proto.h> be included while _KERNEL is defined.
Brett Bartick <Brett.bartick@nomura.com> reported the problem
first, followed by Stuart Anderson <anderson@ligo.caltech.edu>.
Michael Hocke <michael.hocke@nyu.edu> suggested a work-around
which I refined to limit it to the specific Solaris 10

instance
and then tested on a system provided by Charles Stephens
<cfs@cowlabs.com>

Added the +|-e option for Linux. It exempts file systems
named by path from function calls that might block in the
kernel -- i.e., stat(2) and lstat(2), and when the +e form
is used, readlink (2). The new packager of lsof for the
Linux Fedora and RHEL distributions, Peter Schiffer
<pschiffe@redhat.com>, asked for the feature so it could
be used with Clearcase file systems, whose implementation
can block stat(2) calls. I consider this feature very risky
and easy to misuse -- e.g., specifying the file system as
'/' would exempt all file systems. I don't intend to
propagate this option to any other UNIX dialect that lsof
currently supports.

Made FreeBSD 9 adjustment.

Fixed a Linux bug that prevented the display of paths for
abstact UNIX sockets. Masatake Yamato <yamato@redhat.com>
reported the bug and supplied a patch.

Added compensation for the removal of RPC
header files from
GlibC 2.14 for Linux. Marek Behun <kabel@blackhole.sk>
reported the problem and supplied a patch.

Added support for Linux Netlink protocol. Masatake Yamato
requested the support and supplied a patch. Peter Schiffer
<pschiffe@redhat.com> provided a test system.

Corrected Linux UDP6-lite path. The error was reported by
Masatake Yamato and he also supplied a patch.

4.86 April 10, 2012
Lsof for AIX is no longer supported on any versions of that
operating system.

Added information about the clang compiler for FreeBSD to the
FAQ.

Corrected an arg.c bug in the accumulation of +|-e option
values, reported by Peter Schiffer <pschiffe@redhat.com>.
This correction was supplied as a patch to revision 4.85.

Enabled FreeBSD 10 support and tested it there on a system
provided by Larry Rosenman <ler@lerctr.org>.

Updated for latest Solaris 11 with patches supplied by
Carson Gaspar <carson@taltos.org>. Carson supplied a test
system.

Adjusted
Linux file system search method to compensate for
NFS mounts that have duplicate device numbers. The problem
was reported by Peter Schiffer <pschiffe@redhat.com>, who
provided a test system.

At the request of Peter Schiffer <pschiffe@redhat.com>, added
support for Linux SCTP socket files. Peter provided a test
system. Applied a warning patch supplied by Peter.

Added support for Mac OS X 10.7 (Lion), provided by Allan
Nathanson <ajn@apple.com>. Allan also supplied a test
system.

Enabled FreeBSD 8.3 support and tested it there on a system
provided by Larry Rosenman <ler@lerctr.org>.

Corrected the FAQ information on ZFS with Solaris 10 after
Steven Blackmon <stblackm@cisco.com> and Prasad Jampala
<jampalp@cisco.com> pointed out that it was incorrect --
i.e., outdated by the libctf changes at revision 4.83.

Added code to handle a Linux NFS-mounted root. Jia He
<hejianet@linux.vnet.ibm.com> reported the need for this.

4.87 January 2,
2013
Added an entry to 00FAQ about lsof behavior when the
HASSECURITY and HASNOSOCKSECURITY options are defined.
Carson Gaspar <carson@taltos.org> pointed out the need
for this clarification.

Added a work-around for a missing definition of mach_port_t
in Darwin 9 (Mac OS/X 10.5.8). The work-around was supplied
by Jim Reid <jim@rfc1035.com>.

Added support for Linux anon_inodefs, provided by Masatake
YAMATO <yamato@redhat.com>.

Documented a Solaris 9 and 10 portmap reporting problem
(+M) in 00FAQ. The problem was reported by Clint
Roberts <Clint.Roberts@ttius.com>. I have no solution
to the problem, but discuss a possible work-around in

the answer to this 00FAQ question: "Why doesn't lsof
report portmap registrations for some Solaris versions?"

Added FreeBSD support for the oldnfs and newnfs file system
types. Daniel Braniss <danny@cs.huji.ac.il> reported the
need for the addition.

Added ICMP socket support for Linux with code provided by
Masatake
YAMATO <yamato@redhat.com>.

Corrected the reporting of process group ID for libproc
versions of Mac OS X with a patch from Jeff Trawick
<trawick@gmail.com>. The patch has not been applied to
Darwin kmem versions, because of little call for them
and inadequate test system access. The patch has been
tested on Mac OS X 10.8 (Mountain Lion), courtesy of a
test system provided by Allan Nathanson <ajn@apple.com>.

Added thread support to those FreeBSD versions that have
ki_numthreads in their kinfo_proc structure. This also
activates the -K option for those FreeBSD versions. Jeff
Trawick reported problems with FreeBSD lsof when threads
are present and this addition solves those problems.

Made changes to 00FAQ and the distribution, suggested by
Warren Young <warren@etr-usa.com>. The 00FAQ changes
center on sections that discuss the -s option. The changes
to the distribution include a ChangeLog file that is either
a pointer to or a copy of 00DIST,
the distribution notes.

Added support to FreeBSD for using the clang compiler.

Added Linux support for using the getxattr() call to obtain
socket protocol identification when it is can't be obtained
from the /proc/net files that lsof examines. Masatake YAMATO
<yamato@redhat.com> developed the kernel patch to getxattr()
and supplied the lsof patch.

4.88 October 13, 2014
Reduced to 50 the number of open file descriptors lsof
attempts to close while trying to protect itself from a
file descriptor exec() attack. This limits the overhead
lsof incurs on systems that have large file descriptor
limits, yet provides sufficient open descriptors for the
library functions lsof calls.

Updated for changes in FreeBSD 10 with advice from Eygene
Ryabinkin <rea@freebsd.org>. Taught Configure to recognize
FreeBSD 8.4.

Herein am noting that lsof for Solaris 10 or 11 is no longer
supported. I no longer have test systems. Some support is
still available
from Casper Dik <Casper.Dik@oracle.com> and a
Solaris 11 patch he provided is included in this revision.

Initialized local variables in the Linux process_id() function.
Jia He <jiakernel@gmail.com> reported the problem.

Added support for FreeBSD 11.

Updated FreeBSD ZFS Configure stanza to supply a dummy
opt_kdtrace.h when needed.

Added tmpfs file system support for FreeBSD.

Since a test system is no longer available, dropped the
claim of FreeBSD 4.9 support.

Added the +|-E options for Linux. -E displays endpoint info;
+E displays endpoint info and endpopint files. Masatake YAMATO
<yamato@redhat.com> requested this support and suggested code
to implement it.

Fixed a Linux bug handling processes whose command includes a
non-printing character, particularly a NEWLINE character, and
clarified printing of single '\\' characters in command and
file names. Stephane Chazelas <stephane.chazelas@gmail.com>
reported the problem.

Added support for
Linux RDMA and CRYPTO protocal names and UNIX
socket type with code from Masatake YAMATO <yamato@redhat.com>.

Fixed field output to insure that the field descriptor field is
always selected, since it identifies the file set. The bug was
reported by Gary Plewa <gary.m.plewa-1@lowes.com>.

4.89 July 7, 2015
Applied correction from Casper Dik <Casper.Dik@oracle.com> to
his patch for Solaris 11 that I applied incorrectly in revision
4.88.

Updated for latest version of FreeBSD 11.0-CURRENT.

Compensated for a missing FreeBSD 10.0 typedef of bool on the
i386 architecture. Allen Hewes <rallenh@hotmail.com> provided
a test system. Andrey Chernov <ache@freebsd.org> provided
useful advice.

Improved tests/Add2TestDB script with a patch from Peter
Schiffer <pschiffe@redhat.com>. Added patches from Peter to
eliminate Linux gcc warnings. Updated Lsof.8 with improvements
supplied by Bjarni Ingi Gislason <bjarniig@rhi.hi.is>.

Changed FreeBSD global CFLAGS extraction
per Terry Kennedy
<TERRY@tmk.com>. Also made sure -DNEEDS_BOOL_TYPEDEF is
#define'd when the resulting CFLAGS doesn't contain it. Terry
reported that need.

Improved Linux test for tcp.h in response to a report from
Cato Auestad <cato@cato.ninja>. Cato did the testing.

Fixed Linux UNIX socket search by name bug reported by
Stephane Chazelas <stephane.chazelas@gmail.com>.

Added Linux display of UNIX socket endpoint information with
code provided by Masatake YAMATO <yamato@redhat.com>. Peter
Schiffer <pschiffe@redhat.com> provided a test system.

Insured that type definitions from <vm/vm.h> were again made
visible to lsof on FreeBSD 11 after a system header file change
hid them.

4.90 February 14, 2018

!!!NOTE!!!
!   !
!   It is likely that this is the last lsof revision I   !
!   will issue, unless serious bugs are detected, Stay !
!
tuned to lsof-l for information about future support !
!   of lsof.   !
!   !
!   I thank all the many contributors to lsof over the   !
!   many years (20+?) I have been distributing lsof   !
!   versions 1, 2, 3 and 4.   !
!   !
!   Vic Abell <abe@purdue.edu>   !
!   !
!!!NOTE!!!

Taught the Configure script to create a dummy opt_random.h
for FreeBSD systems whose <sys/random.h> includes it.

Added support for the FreeBSD ZFUSE file system.

Corrected the quoting in a Darwin putchar() statement in the
dfile.c source file. Andrew Janke <floss@apjanke.net> reported
my error.

Added support for the FreeBSD DTYPE_PTS file descriptor and
for unknown descriptors
that reference the kernel's badfileops
operation switch. Enabled FreeBSD 12.0 support. Tested the
changes on systems provided by Larry Rosenman <ler@lerctr.org>.

Enhanced -K option with the form "-K i" to direct lsof to
(i)gnore tasks. A query from Rachel Kroll <rkroll@fb.com>
suggested this option. Linux task reports now include both
process and task command names, making lsof's "-c <name>"
option work correctly.

Added a patch to prevent NFS blocking in Linux supplied by
Kristyna Streitova <kstreitova@suse.com>.

Installed a FreeBSD patch that prevents examining a TCP state
structure during a race condition. The patch was supplied by
Bryan Drewery <bdrewery@FreeBSD.org>.

Updated FreeBSD for new UFS inode structure that lacks an i_dev
member in the most recent 12.0-CURRENT. Larry Rosenman
<ler@lerctr.org> reported the problem and provided a test
system.

Added "#define KLD_MODULE" to dlsof.h and dnode2.c to prevent
<machine/cpuconf.h>
from generating an "ARM_NARCH is 0" error.
This is needed so lsof can access kernel structures. Larry
Rosenman supplied the addition.

Added recognition of the FreeBSD 11 file system name "nullfs".
Jamie Landeg-Jones <jamie@catflap.org> supplied the fix.

Added a patch from Larry Rosenman <ler@lerctr.org> that is
needed on FreeBSD 12 so the lsof compilation can obtain the
inpcb and tcpcb structures from their respective header files.

Updated FreeBSD dmnt.c for the ino64 changes.

Inserted a patch for Solaris 12.x to avoid compilation errors
from <sys/aio_req.h>, based on information provided by Jorn
Clausen <joern.clausen@uni-bielefeld.de>. Jorn tested the
patch.

Added performance enhancement that uses the FreeBSD closefrom()
and dup2() C library functions when available. The enhancement
was supplied by Conrad Meyer <cem@freebsd.org>.

Corrected FreeBSD lsof's gathering of ZFS file device numbers.

Updated lsof test library for FreeBSD.

Updated
socket optons information collection from the socket
structure per changes supplied by Gleb Smirnoff
<glebius@FreeBSD.org>.

Added patch to dlsof.h that avoids a _KERNEL conflict with
bzero. Mateusz Guzik <mjguzik@gmail.com> supplied the patch.

Corrected test library to handle 64 bit FreeBSD device numbers.

Added #defines for FreeBSD 12, src r324225, from Gleb Smirnoff
<glebius@FreeBSD.org>.

Incorporated Linux pseudoterminal endpoint processing (+|-E)
provided by Masatake YAMATO <yamato@redhat.com> with access to
test systems provided by Peter Schiffer <pschiffe@redhat.com>.

Corrected Linux command extraction for commands that include
parentheses -- e.g., "(sd-pam)".

4.91 March 26, 2018

A bug has been reported in the PTY endpoint processing of
Linux lsof 4.90 by Peter Wu <peter@lekensteyn.nl>, making it
necessary for me to release another revision of lsof.

This revision applies two fixes that correct the Linux PTY
endpoint processing bug. Masatake
YAMATO <yamato@redhat.com>
supplied the fixes.

4.92 July 14, 2018
THIS IS A FREEBSD-ONLY DISTRIBUTION!

Fixes Configure script section that creates the FreeBSD
lockf_owner.h header file; fixes <string.h> conflicts with
FreeBSD kernel header files. Mateusz Gusik supplied part of
the fix.

Released lsof to GitHub with Purdue releases documented in
support/GitHub-release.

Vic Abell <abe@purdue.edu>
July 14, 2018

4.92.1 May 6, 2019

!!!NOTE!!!
! !
! The maintainership is switched from Vic to lsof-org !
! at GitHub team officially. !
! We thank Vic for working on lsof over the years. !
! !
! lsof-org at GitHub team (https://github.com/lsof-org) !
!!!NOTE!!!

This is just for testing "Release" feature of
GitHub.
Many documentations are not updated yet.
URLs in -v output and -h output are updated.

Masatake YAMATO <yamato@redhat.com>, a member of lsof-org
May 6, 2019

Found in path(s):
* /lsof-4-92-1-zip/lsof-4.92.1/00DIST

1.366 libjitterentropy 3.4.0

1.366.1 Available under license :

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analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to

permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from

such a program is covered only if its contents constitute a work based on the Library (independent
of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply

a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the
work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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the only way you could satisfy both it and this License would be to
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If any portion of this section is held invalid or unenforceable under any
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to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

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an explicit geographical distribution limitation excluding those countries,
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versions of the Library General Public License from time to time.
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version is given a distinguishing version number. If the Library
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IS LICENSED FREE OF CHARGE, THERE IS NO
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FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>
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modify it under the terms of the GNU Library General Public
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This library is distributed in the hope that it will be useful,
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.
Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed
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the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you

receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and

adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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GIMP Palette
Name: Test
Columns: 0
#
GIMP Palette
Name: custompalette
Columns: 4
#
 0   0   0   Index 3
65 38 30   Index 4

103 62 49   Index 6
79 73 72   Index 7
114 101 97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11

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GIMP Palette
Name: badpalettefile
Columns: 4
#
 0   0   0   Index 3
01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
103 62 49   Index 6
79 73 72   Index 7
114 101 97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11
GIMP Palette
Name: badpaletteentry
Columns: 4
#
 0   0   0   Index 3
65 38
103 62 49   Index 6
79 73 72   Index 7
114 101 97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11

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1.379 slf4j-impl 1.7.5

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* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/Log4jLoggerFactory.java
* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/Log4jLoggerAdapter.java
* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/Log4jMDCAdapter.java
* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-log4j12-1-7-5-sources-jar-zip/slf4j-log4j12-1-7-5-sources-jar/org/slf4j/impl/StaticMDCBinder.java

1.380 timezone_checker 1.0.0-000

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Found in path(s):
* /timezone-checker-tar/b79c0f3c928a609ac1b0968cfb9573ce.py

1.381 savi_api 0.0.0

1.381.1 Available under license :

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/libsavi-so-3-2-07-358-zip/libsavi.so.3.2.07.358.1: binary file matches

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* /bin/grep

1.382 bsddb3 4.4.2

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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/bsddb/dbtables.py
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/bsddb/test/test_dbtables.py
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/bsddb/dbutils.py
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/bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/images/ps.gif: binary file matches

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Metadata-Version: 1.0
Name: bsddb3
Version: 4.4.2
Summary: Python interface for BerkeleyDB 3.2 thru 4.4
Home-page: http://pybsddb.sf.net/
Author: Robin Dunn, Gregory P. Smith, Andrew Kuchling, Barry Warsaw
Author-email: pybsddb-users@lists.sourceforge.net
License: UNKNOWN
Description: This module provides a nearly complete wrapping
      of the Sleepycat C API for the Database
      Environment, Database, Cursor, and Transaction
      objects, and each of these is exposed as a Python
      type in the bsddb3.db module. The databse objects
      can use various access methods: btree, hash, recno,
      and queue. For the first time all of these are
      fully supported in the Python wrappers. Please see
      the documents in the docs directory of the source
      distribution or at the website for more details on
      the types and methods provided.
Platform: UNKNOWN

Found in path(s):
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_lk_max.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/set_func_map.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/arch/bigpic.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_truncate.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/dumpload/utility.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/utility/db_printlog.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/txn_commit.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/set_func_open.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/intro/need.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/disk.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/xa/xa_intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_verify.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/config.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/dbc_put.html
*
/bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/txn/other.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_del.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_data_dir.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/truncate.html

* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/appsignals.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_re_source.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/region.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/value_set.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/scope.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/throughput.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/page.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/rpc/server.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/memp_trickle.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/term.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_key_range.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/lock_put.html
*
 /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am_conf/re_source.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/rmw.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/java.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/utility/berkeley_db_svc.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am_conf/bt_minkey.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am_misc/faq.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/arch/progmodel.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/read.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/verify.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/incomplete.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/rpc.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_flags.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_tx_max.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/lock_detect.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/intro/terrain.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/set_func_rename.html
*
 /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_stat.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/close.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/stdmode.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/conflict.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build_unix/intro.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/set_func_sleep.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/faq.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/using.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_remove.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/memp_fget.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/error.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/reclimit.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/set_feedback.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/set_func_unlink.html
*

/bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/archival.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/bigfile.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/log/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/twopl.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/log_compare.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/db.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build_vxworks/notes.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_sync.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple_tut/open.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple_tut/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_lk_detect.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/log_unregister.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build_unix/ultrix.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/inc.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am_conf/bt_compare.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/app.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/disk.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/hsearch.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.2.0/system.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/lock_vec.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/xa.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/version.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_feedback.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/checkpoint.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/txn_checkpoint.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/handle.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/tmp.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_errcall.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/set_paniccall.html

* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/error.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/faq.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/toc.html
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 /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/set_func_unmap.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_rec_init.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/log_put.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_lg_bsize.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/create.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_paniccall.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/intro/where.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/toc.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/dumpload/format.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/stat.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/notfound.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/txn_begin.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/c_index.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/env_open.html
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 /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am_conf/extentsize.html
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/bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/utility/db_deadlock.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build_win/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_close.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/utility/db_upgrade.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/dbsizes.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/delete.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/func.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_rpc_server.html
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<h1>Challenges in Embedded Database System Administration</h1>
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<h3>Michael Olson, Sleepycat Software, Inc.</h3>
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<p>
Database configuration and maintenance have historically been complex tasks,
often
requiring expert knowledge of database design and application
behavior.
In an embedded environment, it is not feasible to require such
expertise and ongoing database maintenance.
This paper discusses the database administration
challenges posed by embedded systems and describes how the
Berkeley DB architecture addresses these challenges.

<h2>1. Introduction</h2>

Embedded systems provide a combination of opportunities and challenges
in application and system configuration and management.
As an embedded system is most
 often dedicated to a single application or
small set of tasks, the operating conditions of the system are
typically better understood than those of general purpose computing
environments.
Similarly, as embedded systems are dedicated to a small set of tasks,
one would expect that the software to manage them should be small
and simple.
On the other hand, once an embedded system is deployed, it must
continue to function without interruption and without administrator
intervention.
<p>
Database administration consists of two components,

initial configuration and ongoing maintenance.
Initial configuration consists of database design, manifestation,
and tuning.
The instantiation of the design includes decomposing the design
into tables, relations, or objects and designating proper indices
and their implementations (e.g., Btrees, hash tables, etc.).
Tuning a design requires selecting a location for the log and
data files, selecting appropriate database page sizes, specifying
the size of in-memory
caches, and specifying the limits of
multi-threading and concurrency.
As embedded systems define a specific environment and set of tasks,
requiring expertise during the initial system
configuration process is acceptable, and we focus our efforts on
the ongoing maintenance of the system.
In this way, our emphasis differs from other projects such as
Microsoft's AutoAdmin project [3], and the "no-knobs"
administration that is identified as an area of important future
research by the Asilomar authors[1].
<p>
In this paper, we focus on what the authors
of the Asilomar report call "gizmo" databases [1],
databases
that reside in devices such as smart cards, toasters, or telephones.
The key characteristics of such databases are that their
functionality is completely transparent to users, no one ever
performs explicit database operations or
database maintenance, the database may crash at any time and
must recover instantly,
the device may undergo a hard reset at
any time, requiring that the database return to its initial
state, and the semantic integrity of the database must be maintained
at all times.
In Section 2, we provide more detail on the sorts of tasks
typically performed by database administrators (DBAs) that must
be automated in an embedded system.
<p>
The rest of this paper is structured as follows.
In Section 2, we outline the requirements for embedded database support.
In Section 3, we discuss how Berkeley DB
is conducive to the hands-off management
required in embedded systems.
In Section 4, we discuss novel features that
enhance Berkeley
DB's suitability for the embedded applications.
In Section 5, we discuss issues of footprint size.
In Section 6 we discuss related work, and we conclude
in Section 7.

<h2>2. Embedded Database Requirements</h2>
Historically, much of the commercial database industry has been driven
by the requirements of high performance online transaction
processing
(OLTP), complex query processing, and the industry
standard benchmarks that have emerged (e.g., TPC-C [9],
TPC-D [10]) to
allow for system comparisons.
As embedded systems typically perform fairly simple queries,
such metrics are not nearly as relevant for embedded database
systems as are ease of maintenance, robustness, and small footprint.
Of these three requirements, robustness and ease of maintenance
are the key issues.
Users must trust the data stored in their devices and must not need
to manually perform anything resembling system administration in order
to get their unit to work properly.
Fortunately, ease of use and robustness are important side
effects of simplicity and good design.
These, in turn, lead to a small size, providing the third
requirement of an embedded system.
<h3>2.1 The User Perspective</h3>
<p>
In the embedded database arena, it is the ongoing maintenance tasks
that must be automated, not necessarily the initial system configuration.
There
are five tasks
that are traditionally performed by DBAs,
but must be performed automatically
in embedded database systems.
These tasks are
log archival and reclamation,
backup,
data compaction/reorganization,
automatic and rapid recovery, and
reinitialization from scratch.
<P>
Log archival and backup are tightly coupled.
Database backups are part of any
large database installation, and log archival is analogous to incremental
backup.
It is not clear what the implications of backup and archival are in
an embedded system.
Consumers do not back up their VCRs or refrigerators, yet they do
(or should) back up their personal computers or personal digital
assistants.
For the remainder of this paper, we assume that backups, in some form,
are required for gizmo databases (imagine having to reprogram, manually,

the television viewing access pattern learned by some set-top television
systems today).
Furthermore, we require that those backups are nearly instantaneous or
completely
transparent,
as users should not be aware that their gizmos are being backed up
and should not have to explicitly initiate such backups.
<p>
Data compaction or reorganization has traditionally required periodic
dumping and restoration of
database tables and the recreation of indices.
In an embedded system, such reorganization must happen automatically.
<p>
Recovery issues are similar in embedded and traditional environments
with a few exceptions.
While a few seconds or even a minute recovery is acceptable
for a large server installation, no one is willing to wait
for their telephone or television to reboot.
As with archival, recovery must be nearly instantaneous in an embedded product.
Secondly, it is often the case that a system will be completely
reinitialized, rather than simply rebooted.
In this case, the embedded database must be restored to its initial
state, freeing all its resources.
This is not typically a requirement of large server systems.
<h3>2.2 The Developer Perspective</h3>
<p>
In
addition to the maintenance-free operation required of the
embedded systems, there are a number of requirements that fall
out of the constrained resources typically found in the "gizmos"
using gizmo databases. These requirements are:
small footprint,
short code-path,
programmatic interface for tight application coupling and
to avoid the overhead (in both time and size) of
interfaces such as SQL and ODBC,
application configurability and flexibility,
support for complete memory-resident operation (e.g., these systems
must run on gizmos without file systems), and
support for multi-threading.
<p>
A small footprint and short code-path are self-explanatory, however
what is not as obvious is that the programmatic interface requirement
is the logical result of them.
Traditional interfaces such as ODBC and SQL add significant
size overhead and frequently add multiple context/thread switches
per operation, not to mention several IPC calls.
An embedded product is less likely to require

the complex
query processing that SQL enables.
Instead, in the embedded space, the ability for an application
to configure the database for the specific tasks in question
is more important than a general query interface.
<p>
As some systems do not provide storage other than RAM and ROM,
it is essential that an embedded database work seemlessly
in memory-only environments.
Similarly, many of today's embedded operating systems provide a
single address space architecture, so a simple, multi-threaded
capability is essential for application requiring any concurrency.
<p>
In general, embedded applications run on gizmos whose native
operating system support varies tremendously.
For example, the embedded OS may or may
not support user-level processing or multi-threading.
Even if it does, a particular embedded
application may or may not need it.
Not all applications need more than one thread of control.
An embedded database must provide mechanisms to developers
without deciding policy.
For
example, the threading model in an application is a matter of policy,
and depends
not on the database software, but on the hardware, operating
system, and the application's feature set.
Therefore, the data manager must provide for the use of multi-threading,
but not require it.

<h2>3. Berkeley DB: A Database for Embedded Systems</h2>
Berkeley DB is the result of implementing database functionality
using the UNIX tool-based philosophy.
The current Berkeley DB package, as distributed by Sleepycat
Software, is a descendant of the hash and btree access methods
distributed with 4.4BSD and its descendents.
The original package (referred to as DB-1.85),
while intended as a public domain replacement for dbm and
its followers (e.g., ndbm, gdbm, etc), rapidly became widely
used as an efficient, easy-to-use data store.
It was incorporated into a number of Open Source packages including
Perl, Sendmail, Kerberos, and the GNU C-library.
<p>
Versions 2.X and higher are distributed by Sleepycat
Software and
add functionality for concurrency, logging, transactions, and
recovery.
Each piece of additional functionality is implemented as an independent

module, which means that the subsystems can be used outside the
context of Berkeley DB. For example, the locking subsystem can
easily be used to implement locking for a non-DB application and
the shared memory buffer pool can be used for any application
caching data in main memory.
This subsystem design allows a designer to pick and choose
the functionality necessary for the application, minimizing
memory footprint and maximizing performance.
This addresses the small footprint and short code-path criteria
mentioned in the previous section.
<p>
As Berkeley DB grew out of a replacement for dbm, its primary
implementation language has always been C and its interface has
been programmatic. The C interface is the native interface,
unlike many database systems where the programmatic API is simply
a layer on top of an already-costly query
 interface (e.g. embedded
SQL).
Berkeley DB's heritage is also apparent in its data model; it has
none.
The database stores unstructured key/data pairs, specified as
variable length byte strings.
This leaves schema design and representation issues the responsibility
of the application, which is ideal for an embedded environment.
Applications retain full control over specification of their data
types, representation, index values, and index relationships.
In other words, Berkeley DB provides a robust, high-performance,
keyed storage system, not a particular database management system.
We have designed for simplicity and performance, trading off
complex, general purpose support that is better encapsulated in
applications.
<p>
Another element of Berkeley DB's programmatic interface is its
customizability; applications can specify Btree comparison and
prefix compression functions, hash functions, error routines,
and recovery models.
This means that embedded applications can tailor the underlying
database
 to best suit their data demands.
Similarly, the utilities traditionally bundled with a database
manager (e.g., recovery, dump/restore, archive) are implemented
as tiny wrapper programs around library routines. This means
that it is not necessary to run separate applications for the
utilities. Instead, independent threads can act as utility
daemons, or regular query threads can perform utility functions.
Many of the current products built on Berkeley DB are bundled as
a single large server with independent threads that perform functions
such as checkpoint, deadlock detection, and performance monitoring.

<p>
As mentioned earlier, living in an embedded environment requires
flexible management of storage.
Berkeley DB does not require any preallocation of disk space
for log or data files.
While many commercial database systems take complete control
of a raw device, Berkeley DB uses a normal file system, and
can therefore, safely and easily share a data space with other
programs.
All
databases and log files are native files of the host environment,
so whatever utilities are provided by the environment can be used
to manage database files as well.
<p>
Berkeley DB provides three different memory models for its
management of shared information.
Applications can use the IEEE Std 1003.1b-1993 (POSIX) <tt>mmap</tt>
interface to share
data, they can use system shared memory, as frequently provided
by the shmget family of interfaces, or they can use per-process
heap memory (e.g., malloc).
Applications that require no permanent storage and do not provide
shared memory facilities can still use Berkeley DB by requesting
strictly private memory and specifying that all databases be
memory-resident.
This provides pure-memory operation.
<p>
Lastly, Berkeley DB is designed for rapid startup -- recovery can
happen automatically as part of system initialization.
This means that Berkeley DB works correctly in environments where
gizmos are suddenly shut down and restarted.

<h2>4.
Extensions for Embedded Environments </h2>
While the Berkeley DB library has been designed for use in
embedded systems, all the features described above are useful
in more conventional systems as well.
In this section, we discuss a number of features and "automatic
knobs" that are specifically geared
toward the more constrained environments found in gizmo databases.

<h3>4.1 Automatic compression</h3>
Following the programmatic interface design philosophy, we
support application-specific (or default) compression routines.
These can be geared toward the particular data types present
in the application's dataset, thus providing better compression
than a general purpose routine.
Note that the application could instead specify an encryption

function and create encrypted databases instead of compressed ones.
Alternately, the application might specify a function that performs
both compression and encryption.
<p>
As applications are also permitted to specify comparison and hash
functions,
 the application can chose to organize its data based
either on uncompressed and clear-text data or compressed and encrypted
data.
If the application indicates that data should be compared in its
processed form (i.e., compressed and encrypted), then the compression
and encryption are performed on individual data items and the in-memory
representation retains these characteristics.
However, if the application indicates that data should be compared in
its original form, then entire pages are transformed upon being read
into or written out of the main memory buffer cache.
These two alternatives provide the flexibility to trade space
and security for performance.

<h3>4.2 In-memory logging & transactions</h3>
One of the four key properties of transaction systems is durability.
This means that transaction systems are designed for permanent storage
(most commonly disk). However, as mentioned above, embedded systems
do not necessarily contain any such storage.
Nevertheless, transactions
 can be useful in this environment to
preserve the semantic integrity of the underlying storage.
Berkeley DB optionally provides logging functionality and
transaction support regardless of whether the database and logs
are on disk or in memory.

<h3>4.3 Remote Logs</h3>
While we do not expect users to backup their television sets and
toasters, it is conceivable that a set-top box provided by a
cable carrier should, in fact, be backed up by that cable carrier.
The ability to store logs remotely can provide "information appliance"
functionality, and can also be used in conjunction with local logs
to enhance reliability.
Furthermore, remote logs provide for catastrophic recovery, e.g., loss
of the gizmo, destruction of the gizmo, etc.

<h3>4.4 Application References to Database Buffers</h3>

Typically, when data is returned to the user, it must be copied
from the data manager's buffer cache (or data page) into the
application's memory.
However, in an embedded environment, the robustness

of the
total software package is of paramount importance, not the
isolation between the application and the data manager.
As a result, it is possible for the data manager to avoid
copies by giving applications direct references to data items
in a shared memory cache.
This is a significant performance optimization that can be
allowed when the application and data manager are tightly
integrated.

<h3>4.5 Recoverable database creation/deletion</h3>

In a conventional database management system, the creation of
database tables (relations) and indices are heavyweight operations
that are not recoverable.
This is not acceptable in a complex embedded environment where
instantaneous recovery and robust operation in the face of
all types of database operations is essential.
While Berkeley DB files can be removed using normal file system
utilities, we provide transaction protected utilities that
allow us to recover both database creation and deletion.

<h3>4.6 Adaptive concurrency control</h3>
The
Berkeley DB package uses page-level locking by default.
This trades off fine grain concurrency control for simplicity
during recovery. (Finer grain concurrency control can be
obtained by reducing the page size in the database.)
However, when multiple threads/processes perform page-locking
in the presence of writing operations, there is the
potential for deadlock.
As some environments do not need or desire the overhead of
logging and transactions, it is important to provide the
ability for concurrent access without the potential for
deadlock.
<p>
Berkeley DB provides an option to perform coarser grain,
deadlock-free locking.
Rather than locking on pages, locking is performed at the
interface to the database.
Multiple readers or a single writer are allowed to be
active in the database at any instant in time, with
conflicting requests queued automatically.
The presence of cursors, through which applications can both
read and write data, complicates this design.
If a cursor is currently
being used for reading, but will later
be used to write, the system will be deadlock prone if no

special precautions are taken.
To handle this situation, we require that, when a cursor is
created, the application specify any future intention to write.
If there is an intention to write, the cursor is granted an
intention-to-write lock which does not conflict with readers,
but does conflict with other intention-to-write locks and write
locks.
The end result is that the application is limited to a single
potentially writing cursor accessing the database at any point
in time.
<p>
Under periods of low contention (but potentially high throughput),
the normal page-level locking provides the best overall throughput.
However, as contention rises, so does the potential for deadlock.
As some cross-over point, switching to the less concurrent, but
deadlock-free locking protocol will result in higher throughput
as operations must never be retried.
Given the operating conditions of an embedded database
manager,
it is useful to make this change automatically as the system
itself detects high contention.

<h3>4.7 Adaptive synchronization</h3>

In addition to the logical locks that protect the integrity of the
database pages, Berkeley DB must synchronize access to shared memory
data structures, such as the lock table, in-memory buffer pool, and
in-memory log buffer.
Each independent module uses a single mutex to protect its shared
data structures, under the assumption that operations that require
the mutex are very short and the potential for conflict is
low.
Unfortunately, in highly concurrent environments with multiple processors
present, this assumption is not always true.
When this assumption becomes invalid (that is, we observe significant
contention for the subsystem mutexes), we can switch over to a finer-grained
concurrency model for the mutexes.
Once again, there is a performance trade-off. Fine-grain mutexes
impose a penalty of approximately 25% (due to the increased number
of
mutexes required for each operation), but allow for higher throughput.
Using fine-grain mutexes under low contention would cause a decrease
in performance, so it is important to monitor the system carefully,
so that the change can be executed only when it will increase system
throughput without jeopardizing latency.

<h2>5. Footprint of an Embedded System</h2>
While traditional systems compete on price-performance, the

embedded players will compete on price, features, and footprint.
The earlier sections have focused on features; in this section
we focus on footprint.
<p>
Oracle reports that Oracle Lite 3.0 requires 350 KB to 750 KB
of memory and approximately 2.5 MB of hard disk space [7].
This includes drivers for interfaces such as ODBC and JDBC.
In contrast, Berkeley DB ranges in size from 75 KB to under 200 KB,
foregoing heavyweight interfaces such as ODBC and JDBC and
providing a variety of deployed sizes that can be used depending
on application needs.
  At the low end, applications requiring
a simple single-user access method can choose from either extended
linear hashing, B+ trees, or record-number based retrieval and
pay only the 75 KB space requirement.
Applications requiring all three access methods will observe the
110 KB footprint.
At the high end, a fully recoverable, high-performance system
occupies less than a quarter megabyte of memory.
This is a system you can easily incorporate in your toaster oven.
Table 1 shows the per-module break down of the entire Berkeley DB
library. Note that this does not include memory used to cache database
pages.

<table border>
<tr><th colspan=4>Object sizes in bytes</th></tr>
<tr><th align=left>Subsystem</th><th align=center>Text</th><th align=center>Data</th><th
align=center>Bss</th></tr>
<tr><td>Btree-specific routines</td><td align=right>28812</td><td align=right>0</td><td
align=right>0</td></tr>
<tr><td>Recno-specific routines</td><td align=right>7211</td><td align=right>0</td><td align=right>0</td></tr>
<tr><td>Hash-specific
 routines</td><td align=right>23742</td><td align=right>0</td><td align=right>0</td></tr>
<tr><td colspan=4></td></tr>
<tr><td>Memory Pool</td><td align=right>14535</td><td align=right>0</td><td align=right>0</td></tr>
<tr><td>Access method common code</td><td align=right>23252</td><td align=right>0</td><td
align=right>0</td></tr>
<tr><td>OS compatibility library</td><td align=right>4980</td><td align=right>52</td><td
align=right>0</td></tr>
<tr><td>Support utilities</td><td align=right>6165</td><td align=right>0</td><td align=right>0</td></tr>
<tr><td colspan=4></td></tr>
<tr><th>All modules for Btree access method only</th><td align=right>77744</td><td align=right>52</td><td
align=right>0</td></tr>
<tr><th>All modules for Recno access method only</th><td align=right>84955</td><td align=right>52</td><td
align=right>0</td></tr>
<tr><th>All modules for Hash access method only</th><td align=right>72674</td><td align=right>52</td><td
align=right>0</td></tr>
<tr><td

colspan=4></td></tr>
<tr><th align=left>All Access Methods</th><td align=right>108697</td><td align=right>52</td><td
align=right>0</td></tr>
<tr><td colspan=4>
</td></tr>
<tr><td>Locking</td><td align=right>12533</td><td align=right>0</td><td align=right>0</td></tr>
<tr><td colspan=4></td></tr>
<tr><td>Recovery</td><td align=right>26948</td><td align=right>8</td><td align=right>4</td></tr>
<tr><td>Logging</td><td align=right>37367</td><td align=right>0</td><td align=right>0</td></tr>
<tr><td colspan=4></td></tr>
<tr><th align=left>Full Package</th><td align=right>185545</td><td align=right>60</td><td
align=right>4</td></tr>
<tr>
</tr>
</table>

<h2>6. Related Work</h2>

Every three to five years, leading researchers in the database
community convene to identify future directions in database
research.
They produce a report of this meeting, named for the year and
location of the meeting.
The most recent of these reports, the 1998 Asilomar report,
identifies the embedded
database market as one of the
high growth areas in database research [1].
Not surprisingly, market analysts identify the embedded database
market as a high-growth area in the commercial sector as well
[5].
<p>
The Asilomar report identifies a new class of database applications, which they
term "gizmo" databases, small databases embedded in tiny mobile
appliances, e.g., smart-cards, telephones, personal digital assistants.
Such databases must be self-managing, secure and reliable.
Thus, the idea is that gizmo databases require plug and play data
management with no database administrator (DBA), no human settable
parameters, and the ability to adapt to changing conditions.
More specifically, the Asilomar authors claim that the goal is
self-tuning, including defining the physical DB design, the
logical DB design, and automatic reports and utilities [1]
To date,
few researchers have accepted this challenge, and there
is a dearth
of research literature on the subject.
<p>
Our approach to embedded database administration is fundamentally
different than that described by the Asilomar authors.
We adopt their terminology, but view the challenge in supporting
gizmo databases to be that of self-sustenance after initial

deployment. Therefore, we find it, not only acceptable, but
desirable to assume that application developers control initial
database design and configuration. To the best of our knowledge,
none of the published work in this area addresses this approach.
<p>
As the research community has not provided guidance in this
arena, most work in embedded database administration has fallen
to the commercial vendors.
These vendors fall into two camps, companies selling databases
specifically designed for embedding or programmatic access
and the major database vendors (e.g., Oracle, Informix, Sybase).
<p>
The embedded vendors all acknowledge the need for automatic
administration, but fail to
identify precisely how their
products actually accomplish this.
A notable exception is Interbase whose white paper
comparison with Sybase and Microsoft's SQL servers
explicitly address features of maintenance ease.
Interbase claims that as they use no log files, there is
no need for log reclamation, checkpoint tuning, or other
tasks associated with log management. However, Interbase
uses Transaction Information Pages, and it is unclear
how these are reused or reclaimed [6].
Additionally, with a log-free system, they must use
a FORCE policy (write all pages to disk at commit),
as defined by Haerder and Reuter [4]. This has
serious performance consequences for disk-based systems.
The approach described in this paper does use logs and
therefore requires log reclamation,
but provides hooks so the application may reclaim logs
safely and programmatically.
While Berkeley DB does require checkpoints, the goal of
tuning the checkpoint interval is
to bound recovery time.
Since the checkpoint interval in Berkeley DB can be expressed
by the amount of log data written, it requires no tuning.
The application designer sets a target recovery time, and
selects the amount of log data that can be read in that interval
and specifies the checkpoint interval appropriately. Even as
load changes, the time to recover does not.
<p>
The backup approaches taken by Interbase and Berkeley DB
are similar in that they both allow online backup, but
rather different in their affect on transactions running
during backup. As Interbase performs backups as transactions
[6], concurrent queries can suffer potentially long
delays. Berkeley DB uses native operating system system utilities

and recovery for backups, so there is no interference with
concurrent activity, other than potential contention on disk
arms.
<p>
There are a number of database vendors selling in
the embedded market (e.g., Raima,
Centura, Pervasive, Faircom), but
none highlight
the special requirements of embedded database
applications.
On the other end of the spectrum, the major vendors,
Oracle, Sybase, Microsoft, are all becoming convinced
of the importance of the embedded market.
As mentioned earlier, Oracle has announced its
Oracle Lite server for embedded use.
Sybase has announced its UltraLite platform for "application-optimized,
high-performance, SQL database engine for professional
application developers building solutions for mobile and embedded platforms."
[8].
We believe that SQL is incompatible with the
gizmo database environment or truly embedded systems for which Berkeley
DB is most suitable.
Microsoft research is taking a different approach, developing
technology to assist in automating initial database design and
index specification [2][3].
As mentioned earlier, we believe that such configuration is, not only
acceptable in the embedded market, but desirable
so that applications
can tune their database management for the target environment.
<h2>7. Conclusions</h2>
The coming wave of embedded systems poses a new set of challenges
for data management.
The traditional server-based, big footprint systems designed for
high performance on big iron are not the right approach in this
environment.
Instead, application developers need small, fast, versatile systems
that can be tailored to a specific environment.
In this paper, we have identified several of the key issues in
providing these systems and shown how Berkeley DB provides
many of the characteristics necessary for such applications.

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</body>

</html>

Found in path(s):
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/refs/embedded.html

1.383 servlet-api 8.5.32

1.383.1 Available under license :

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

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1.384 mpclib 1.1.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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- jsp_2_2.xsd
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- web-common_3_0.xsd
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Little Color Management System (LCMS) v2.9

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Little Color Management System

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Mesa 3-D Graphics Library v19.2.1

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Gallium code	src/gallium/	MIT
Ext headers	GL/glext.h	Khronos
	GL/glxext.h	Khronos
	GL/wglext.h	Khronos
	KHR/khrplatform.h	Khronos

****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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xwd v1.0.7

xwd utility
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Ext headers GL/glext.h Khronos
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 * taken from Mark Leisher's xmbdfed package
 *
 */

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Found in path(s):
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/cast.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/dh.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/lhash.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/x509_vfy.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/buffer.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/md4.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/pkcs7.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/ssl2.h

*
/rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/mdc2.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/bio.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/evp.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/dsa.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/hmac.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/ssl23.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/objects.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/conf_api.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/asn1.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/rand.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/rsa.h
*
/rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/blowfish.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/conf.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/asn1_mac.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/stack.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/ripemd.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/md5.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/sha.h
* /rwinlib-openssl-v1-0-1j-0-g0f9135b-tar-gz/rwinlib-openssl-0f9135b/include/openssl/txt_db.h

1.407 python 2.6.4

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.415 pcre 8.43

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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be optional: if the application does not supply it, the square
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany

the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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available free
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
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2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.5	2.4	2006	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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1.421 python-certifi 2019.06.16

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.422 pcre 8.40

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.423 pflag 1.0.5

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1.424 jetty 9.2.13.v20150730

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1.425 python 2.6.1

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXB.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/GetPropertyAction.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/util/Messages.properties
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/Messages.properties
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElements.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementRefs.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlIDREF.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ParseConversionEvent.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlID.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlRootElement.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementRef.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java

* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlNs.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlType.java
*
 /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXBElement.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXBIntrospector.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementDecl.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/PropertyException.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/PrintConversionEvent.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlEnum.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElement.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlSchema.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlTransient.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAttribute.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlEnumValue.java
*
 /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlRegistry.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlNsForm.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXBContext.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ValidationEventHandler.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/MarshalException.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/Messages.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Element.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/UnmarshalException.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ValidationEvent.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Marshaller.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ValidationEventLocator.java
*
 /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/DatatypeConverterInterface.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Unmarshaller.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ValidationException.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/util/JAXBResult.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ContextFinder.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Validator.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/util/ValidationEventCollector.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/NotIdentifiableEvent.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXBException.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/ValidationEventImpl.java
*
 /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/UnmarshallerHandler.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Messages.java

* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/util/JAXBSource.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/util/Messages.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/TypeConstraintException.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
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1.428 simplejson 2.0.9

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1.429 python 2.4.3R

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Mesa 3-D Graphics Library v19.2.1

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Main Mesa code src/mesa/ MIT
Device drivers src/mesa/drivers/* MIT, generally

Gallium code src/gallium/ MIT

Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
KHR/khrplatform.h Khronos

****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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JLine v3.14.0

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## DOM Level 3 Core Specification v1.0

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---
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****

---
include/GL/gl.h :

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include/GL/glxext.h
include/GL/wglxext.h :

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```
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# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
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 # Read the contents of the file into a variable
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 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
```

x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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Format stream_lf

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