Open Source Used In Cisco Nexus 9000 Series 7.0(3)I4(6)

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In your requests please include the following reference number 78EE117C99-144279806

Contents

1.1 acl 2.2.51 :r5
   1.1.1 Available under license
1.2 acl 2.2.51 :12.el7
   1.2.1 Available under license
1.3 acl/LGPLv2.1 2.2.51 :12.el7
   1.3.1 Available under license
1.4 ASM Tree 3.0
   1.4.1 Available under license
1.5 attr 2.4.46 :12.el7
   1.5.1 Available under license
1.6 attr 2.4.46 :r5
   1.6.1 Available under license
1.7 attr/libattr 2.4.46 :12.el7
   1.7.1 Available under license
1.8 audit 2.4.1 :5.el7
   1.8.1 Available under license
1.9 base-files 3.0.14 :r74.2
   1.9.1 Available under license
1.10 base-passwd 3.5.24 :r0.2
   1.10.1 Available under license
1.11 basesystem 10.0 :7.el7.centos
   1.11.1 Available under license
1.12 bash 4.2.46 :12.el7
   1.12.1 Available under license
1.13 bash 4.2 :r8
   1.13.1 Available under license
1.14 beecrypt 4.2.1 :r3
   1.14.1 Available under license
1.15 binutils 2.23.51.20120829+4.6a+127 :r5
   1.15.1 Available under license
1.16 binutils 2.23.52.0.1 :30.el7_1.1
   1.16.1 Available under license
1.17 busybox 1.19.4 :r23
   1.17.1 Available under license
1.18 busybox-oe-min 1.19.4 :r1.1
   1.18.1 Available under license
1.19 bzip2 1.0.6 :12.el7
   1.19.1 Available under license
1.20 bzip2 1.0.6 :r5
   1.20.1 Available under license
1.21 ca-certificates 2014.1.98 :72.el7
   1.21.1 Available under license
1.22 centos-release 7 :1.1503.el7.centos.2.8
   1.22.1 Available under license
1.23 chkconfig 1.3.58 :r3
   1.23.1 Available under license
1.24 chkconfig 1.3.61 :4.el7
   1.24.1 Available under license
1.25 Cobertura 1.9.4.1
   1.25.1 Available under license
1.26 Cobertura :: Limited Runtime 1.9.4.1
   1.26.1 Available under license
1.27 Cobertura Maven Plugin 2.5
   1.27.1 Available under license
1.28 commons-beanutils-core 1.9.2
   1.28.1 Available under license
1.29 coreutils 8.14 :r7
   1.29.1 Available under license
1.30 coreutils 8.22 :11.el7
   1.30.1 Available under license
1.31 cpio 2.11 :r3
   1.31.1 Available under license
1.32 cpio 2.11 :24.el7
   1.32.1 Available under license
1.33 cracklib 2.8.18 :r6
<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.33.1</td>
<td>Available under license</td>
<td></td>
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<tr>
<td>1.34</td>
<td><strong>cracklib 2.9.0 :11.el7</strong></td>
<td></td>
</tr>
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<td>1.34.1</td>
<td>Available under license</td>
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<tr>
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<td></td>
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<tr>
<td>1.35.1</td>
<td>Available under license</td>
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</tr>
<tr>
<td>1.36</td>
<td><strong>cronie 1.4.11 :13.el7</strong></td>
<td></td>
</tr>
<tr>
<td>1.36.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.37</td>
<td><strong>cronie 1.4.8 :r6</strong></td>
<td></td>
</tr>
<tr>
<td>1.37.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.38</td>
<td><strong>cryptsetup 1.6.6 :3.el7</strong></td>
<td></td>
</tr>
<tr>
<td>1.38.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.39</td>
<td><strong>curl 7.29.0 :25.el7.centos</strong></td>
<td></td>
</tr>
<tr>
<td>1.39.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.40</td>
<td><strong>curl 7.24.0 :r8</strong></td>
<td></td>
</tr>
<tr>
<td>1.40.1</td>
<td>Available under license</td>
<td></td>
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<tr>
<td>1.41</td>
<td><strong>curlcpp 1.0</strong></td>
<td></td>
</tr>
<tr>
<td>1.41.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.42</td>
<td><strong>cyrus-sasl 2.1.26 :17.el7</strong></td>
<td></td>
</tr>
<tr>
<td>1.42.1</td>
<td>Notifications</td>
<td></td>
</tr>
<tr>
<td>1.42.2</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.43</td>
<td><strong>cyrus-sasl/libdes 2.1.26 :17.el7</strong></td>
<td></td>
</tr>
<tr>
<td>1.43.1</td>
<td>Notifications</td>
<td></td>
</tr>
<tr>
<td>1.43.2</td>
<td>Available under license</td>
<td></td>
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<tr>
<td>1.44</td>
<td><strong>db 5.3.15 :r7</strong></td>
<td></td>
</tr>
<tr>
<td>1.44.1</td>
<td>Available under license</td>
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<tr>
<td>1.45</td>
<td><strong>dbus 1.6.12 :11.el7</strong></td>
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<td>1.45.1</td>
<td>Available under license</td>
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<tr>
<td>1.46</td>
<td><strong>dbus 1.4.16 :r13.0</strong></td>
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<td>1.46.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.47</td>
<td><strong>dhcp 4.2.3+P2 :r2.1</strong></td>
<td></td>
</tr>
<tr>
<td>1.47.1</td>
<td>Available under license</td>
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<tr>
<td>1.48</td>
<td><strong>diffutils 3.3 :4.el7</strong></td>
<td></td>
</tr>
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<td>1.48.1</td>
<td>Available under license</td>
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</tr>
<tr>
<td>1.49</td>
<td><strong>diffutils 3.2 :r7</strong></td>
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<td>1.49.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.50</td>
<td><strong>Doxia Core 1.0-alpha-4</strong></td>
<td></td>
</tr>
<tr>
<td>1.50.1</td>
<td>Available under license</td>
<td></td>
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<td>1.51</td>
<td><strong>e2fsprogs 1.42.9 :7.el7</strong></td>
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<tr>
<td>1.51.1</td>
<td>Available under license</td>
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</tr>
</tbody>
</table>
1.52 e2fsprogs 1.42.1 :r4
   1.52.1 Available under license
1.53 ed 1.6 :r0
   1.53.1 Available under license
1.54 glibc 2.15 :r21
   1.54.1 Available under license
1.55 elfutils 0.148
   1.55.1 Available under license
1.56 elfutils 0.160 :1.el7
   1.56.1 Available under license
1.57 ethtool 3.15 :2.el7
   1.57.1 Available under license
1.58 ethtool 2.6.36 :r0
   1.58.1 Available under license
1.59 expat 2.1.0 :8.el7
   1.59.1 Available under license
1.60 expat 2.0.1 :r2
   1.60.1 Available under license
1.61 expat_PrintPath 2.1.0 :8.el7
   1.61.1 Notifications
   1.61.2 Available under license
1.62 file 5.11 :21.el7
   1.62.1 Available under license
1.63 file 5.11 :r1
   1.63.1 Available under license
1.64 findutils 4.5.11 :3.el7
   1.64.1 Available under license
1.65 findutils 4.4.2 :r6
   1.65.1 Available under license
1.66 fipscheck 1.4.1 :5.el7
   1.66.1 Available under license
1.67 flex 2.5.35 :r3
   1.67.1 Available under license
1.68 fontconfig 2.8.0 :r4
   1.68.1 Available under license
1.69 fuzzywuzzy 0.2 :r5
   1.69.1 Available under license
1.70 gawk 4.0.2 :4.el7
   1.70.1 Available under license
1.71 gawk 4.0.0 :r1
   1.71.1 Available under license
1.72 gcc 4.8.3 :9.el7
   1.72.1 Available under license
1.73 gcc 4.7.2 :0.0
   1.73.1 Available under license
1.74 gdb 7.4.50.20120716 :r2
   1.74.1 Available under license
1.75 gdbm 1.1 :r3
   1.75.1 Available under license
1.76 gdbm 1.10 :8.el7
   1.76.1 Available under license
1.77 glib 2.32.3 :r4
   1.77.1 Available under license
1.78 glib2 2.40.0 :4.el7
   1.78.1 Available under license
1.79 glib2 2.32.3 :r4
   1.79.1 Available under license
1.80 glibc 2.17 :106.el7_2.1
   1.80.1 Available under license
1.81 gmp 5.0.4 :r0
   1.81.1 Available under license
1.82 gmp 6.0.0 :11.el7
   1.82.1 Available under license
1.83 gnupg2 2.0.22 :3.el7
   1.83.1 Available under license
1.84 gnutls 2.12.17 :r7.3
   1.84.1 Available under license
1.85 gpgme 1.3.2 :5.el7
   1.85.1 Available under license
1.86 gpgme_docs 1.3.2 :5.el7
   1.86.1 Available under license
1.87 gptfdisk 0.8.10 :r0
   1.87.1 Available under license
1.88 grep 2.20 :2.el7
   1.88.1 Available under license
1.89 grep 2.9 :r3
   1.89.1 Available under license
1.90 grub 0.97 :77.el6
1.90.1 Available under license
1.91 gzip 1.5 :7.el7
   1.91.1 Available under license
1.92 gzip 1.4 :r5
   1.92.1 Available under license
1.93 hdparm 9.39 :r4
   1.93.1 Available under license
1.94 hibernate-entitymanager 4.0.1.Final
   1.94.1 Available under license
1.95 hostname 3.13 :3.el7
   1.95.1 Available under license
1.96 i2c-tools 3.1.0 :r0
   1.96.1 Available under license
1.97 ICU 3.6 :r8
   1.97.1 Available under license
1.98 incron 0.5.10
   1.98.1 Available under license
1.99 inetutils 1.9.1 :r7
   1.99.1 Available under license
1.100 init-ifupdown 1.0
   1.100.1 Available under license
1.101 initscripts 1.0 :r144
1.102 initscripts 1.0 :r141
   1.102.1 Available under license
1.103 initscripts 9.49.24 :1.el7
   1.103.1 Available under license
1.104 inotify-tools 3.14 :r0
   1.104.1 Available under license
1.105 iproute 3.10.0 :21.el7
   1.105.1 Available under license
1.106 iproute2 3.5.1 :r3
   1.106.1 Available under license
1.107 iptables 1.4.12.2 :r1
   1.107.1 Available under license
1.108 iptables 1.4.21 :13.el7
   1.108.1 Available under license
1.109 iputils 20121221 :6.el7
   1.109.1 Available under license
1.110 iputils s20101006 :r6
1.110.1 Available under license

1.111 iw 3.6
1.111.1 Available under license

1.112 java-getopt 1.0.9
1.112.1 Available under license

1.113 Java-WebSocket 1.3.0
1.113.1 Available under license

1.114 Jettison 1.3.5
1.114.1 Available under license

1.115 json 20140107
1.115.1 Available under license

1.116 json-c 0.11 :4.el7_0
1.116.1 Available under license

1.117 json-io 2.6.0
1.117.1 Available under license

1.118 json-smart 1.0.8
1.118.1 Available under license

1.119 jsonrpc2-base 1.35
1.119.1 Available under license

1.120 jsonrpc2-client 1.14.4
1.120.1 Available under license

1.121 jsonrpc2-server 1.10.1
1.121.1 Available under license

1.122 kernel-linux 3.4.10
1.122.1 Available under license

1.123 kexec-tools 2.0.3 :0.0
1.123.1 Available under license

1.124 keyutils 1.5.8 :3.el7
1.124.1 Available under license

1.125 kmod 14 :10.el7
1.125.1 Available under license

1.126 kmod 14-3b38c7fcb5
1.126.1 Available under license

1.127 krb5 1.12.2 :14.el7
1.127.1 Available under license

1.128 less 444.0 :r3
1.128.1 Available under license

1.129 libassuan 2.1.0 :3.el7
1.129.1 Available under license
1.130 libcap 2.22 :8.el7
   1.130.1 Available under license
1.131 libcap 2.22 :r5
   1.131.1 Available under license
1.132 libcap-ng 0.7.3 :5.el7
   1.132.1 Available under license
1.133 libcap-ng_utils 0.7.3 :5.el7
   1.133.1 Available under license
1.134 libdb 5.3.21 :17.el7_0.1
   1.134.1 Available under license
1.135 libedit 3.0 :12.20121213cvs.el7
   1.135.1 Available under license
1.136 libestr 0.1.9 :2.el7
   1.136.1 Available under license
1.137 libevent 2.0.16 :r2
   1.137.1 Available under license
1.138 libffi 3.0.10 :r0
   1.138.1 Available under license
1.139 libffi 3.0.13 :11.el7
   1.139.1 Available under license
1.140 libffi_testsuite 3.0.13 :11.el7
   1.140.1 Available under license
1.141 libgcc-s1 4.6.3 :r2
   1.141.1 Available under license
1.142 libgcrypt 1.5.0 :r1
   1.142.1 Available under license
1.143 libgcrypt 1.5.3 :12.el7
   1.143.1 Available under license
1.144 libgpg-error 1.12 :3.el7
   1.144.1 Available under license
1.145 libgpg-error0 1.10 :r1
   1.145.1 Available under license
1.146 libice 1.0.8 :r0
   1.146.1 Available under license
1.147 libidn 1.28 :3.el7
   1.147.1 Available under license
1.148 liblzma5 5.1.1alpha :r0
   1.148.1 Available under license
1.149 libmnl 1.0.3 :7.el7
1.149.1 Available under license
1.150 libnetfilter_conntrack 1.0.4 :2.el7
   1.150.1 Available under license
1.151 libnfnetlink 1.0.1 :4.el7
   1.151.1 Available under license
1.152 libnfsidmap 0.24 :r0
   1.152.1 Available under license
1.153 libnl 3.2.8 :r1
   1.153.1 Available under license
1.154 libpam 1.1.5 :r7.3
   1.154.1 Available under license
1.155 libpcap 1.5.3 :December 18, 2013
   1.155.1 Available under license
1.156 libpcap 1.2.1 :r1.0
   1.156.1 Available under license
1.157 libpcre 8.21 :r1
   1.157.1 Available under license
1.158 libpwquality 1.2.3 :4.el7
   1.158.1 Available under license
1.159 libselinux-utils-GPLv2 2.2.2 :6.el7
   1.159.1 Available under license
1.160 libsemanage 2.1.10 :16.el7
   1.160.1 Available under license
1.161 libsepol 2.1.9 :3.el7
   1.161.1 Available under license
1.162 libsm 1.2.1 :r0
   1.162.1 Available under license
1.163 libssh2 1.4.3 :10.el7
   1.163.1 Available under license
1.164 libssh2 1.4.2 :r0
   1.164.1 Available under license
1.165 libtasn1 2.14 :r0
   1.165.1 Available under license
1.166 libtasn1 3.3 :r0
   1.166.1 Available under license
1.167 libtasn1 3.8 :2.el7
   1.167.1 Available under license
1.168 libtasn1/gplv3 3.3 :r0
   1.168.1 Available under license
1.169 libtirpc 0.2.2 :r0
   1.169.1 Available under license
1.170 libusb 1.0.8 :r4
   1.170.1 Available under license
1.171 libusb-compat 0.1.3 :r4
   1.171.1 Available under license
1.172 libusb1 1.0.8 :r5
   1.172.1 Available under license
1.173 libuser 0.60 :5.el7
   1.173.1 Available under license
1.174 libutempter 1.1.6 :4.el7
   1.174.1 Available under license
1.175 libverto 0.2.5 :4.el7
   1.175.1 Available under license
1.176 libx11 1.4.4 :r2
   1.176.1 Available under license
1.177 libxau 1.0.7 :r0
   1.177.1 Available under license
1.178 libxcb 1.8.1 :r0
   1.178.1 Available under license
1.179 libxdmcp 1.1.1 :r0
   1.179.1 Available under license
1.180 libxml2 2.9.1 :6.el7_2.2
   1.180.1 Available under license
1.181 libxml2 2.7.8 :r8.8
   1.181.1 Available under license
1.182 linux-libc-headers 3.1 :r0
   1.182.1 Available under license
1.183 linux-yocto 3.10.17+gitAUTOINC+6ad20f049a_c03195ed6e :r0
   1.183.1 Available under license
1.184 logrotate 3.8.6 :4.el7
   1.184.1 Available under license
1.185 logrotate 3.8.1 :r0.2
   1.185.1 Available under license
1.186 lsof 4.85 :r1
   1.186.1 Available under license
1.187 lua 5.1.4 :14.el7
   1.187.1 Available under license
1.188 lvm2 2.02.115 :3.el7
1.188.1 Available under license
1.189 lvm2 2.02.95 :r0.1
1.189.1 Available under license
1.190 lzo 2.06 :r1
1.190.1 Available under license
1.191 make 3.82 :21.el7
1.191.1 Available under license
1.192 maven-compiler-plugin 2.3.2
1.192.1 Available under license
1.193 maven-release-plugin 2.4.1
1.193.1 Available under license
1.194 maven-reporting-api 2.0
1.194.1 Available under license
1.195 maven-reporting-impl 2.0
1.195.1 Available under license
1.196 mdadm 3.2.3 :r2
1.196.1 Available under license
1.197 mingetty 1.08 :r3
1.197.1 Available under license
1.198 minicom 2.6.1 :r0
1.198.1 Available under license
1.199 mktemp 1.7 :r3
1.199.1 Available under license
1.200 module-init-tools 3.16 :r0
1.200.1 Available under license
1.201 monit 5.13 :5.13
1.201.1 Available under license
1.202 mtd-utils 1.4.9 :r2
1.202.1 Available under license
1.203 ncurses 5.9 :r13.1
1.203.1 Available under license
1.204 ncurses 5.9 :13.20130511.el7
1.204.1 Available under license
1.205 net-tools 1.60+23 :r4
1.205.1 Available under license
1.206 net-tools 2.0 :0.17.20131004git.el7
1.206.1 Available under license
1.207 netbase 4.47 :r2
1.207.1 Available under license
1.208 netty-all 4.0.21.Final
  1.208.1 Available under license
1.209 Netty-Handler 4.0.20.Final
  1.209.1 Available under license
1.210 Netty/Buffer 4.0.19.Final
  1.210.1 Available under license
1.211 Netty/Common 4.0.19.Final
  1.211.1 Available under license
1.212 nfs-utils 1.2.3 ::r20
  1.212.1 Available under license
1.213 Nginx 1.7.10
  1.213.1 Available under license
1.214 nspr 4.10.6 ::3.el7
  1.214.1 Available under license
1.215 nss 3.16.2.3 ::5.el7
  1.215.1 Available under license
1.216 nss-softokn 3.16.2.3 ::9.el7
  1.216.1 Available under license
1.217 nss-util 3.16.2.3 ::2.el7
  1.217.1 Available under license
1.218 ntp 4.2.6p2
  1.218.1 Available under license
1.219 ocf-linux 2.0120127E7
  1.219.1 Available under license
1.220 openldap 2.4.40 ::8.el7
  1.220.1 Available under license
1.221 openldap 2.4.16
  1.221.1 Available under license
1.222 openssh 6.6.1p1 ::11.el7
  1.222.1 Available under license
1.223 openssh 6.0p1
  1.223.1 Available under license
1.224 openssl 1.0.0i
  1.224.1 Notifications
  1.224.2 Available under license
1.225 OpenSSL 1.0.0 ::r2.10
  1.225.1 Available under license
1.226 openssl 1.0.1e ::51.el7_2.2
  1.226.1 Available under license
1.227 opkg 0.1.8+svn33 :r10.0
   1.227.1 Available under license
1.228 ossp-uuid 1.6.2 :r1
1.229 p11-kit 0.20.7 :3.el7
   1.229.1 Available under license
1.230 pam 1.1.8 :12.el7
   1.230.1 Available under license
1.231 parted 3.1 :r1
   1.231.1 Available under license
1.232 passwd 0.79 :4.el7
   1.232.1 Available under license
1.233 Paste 1.7.5.1 :0.0
   1.233.1 Available under license
1.234 patch 2.6.1 :r1
   1.234.1 Available under license
1.235 pciutils 3.2.0 :r0
   1.235.1 Available under license
1.236 pcre 8.32 :14.el7
   1.236.1 Available under license
1.237 perf-cisco 3.12 :r0.0
   1.237.1 Available under license
1.238 Perl 5.14.2 :r9.4
   1.238.1 Available under license
1.239 pinentry 0.8.1 :14.el7
   1.239.1 Available under license
1.240 pkgconfig 0.27.1 :4.el7
   1.240.1 Available under license
1.241 policycoreutils 2.2.5 :15.el7
   1.241.1 Available under license
1.242 popt 1.13 :16.el7
   1.242.1 Available under license
1.243 popt 1.16 :r1
   1.243.1 Available under license
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Version 2, June 1991
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1.3 acl/LGPLv2.1 2.2.51 :12.el7

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From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

    I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

------
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
    "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey
Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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Version 3, 29 June 2007

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    <program>  Copyright (C) <year>  <name of author>
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1.13 bash 4.2 :r8
1.13.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
    id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
    id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
    id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-) 

From mikel@ora.com Tue Aug  1 12:13:20 1995 
Flags: 10 
Return-Path: mikel@ora.com 
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP 
(8.6.12+cwdru/CWRU-2.1-1ns)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu> ) 
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400 
Received: by los.ora.com (4.1/Spike-2.1) 
id AA00672; Tue, 1 Aug 95 08:57:32 EDT 
Date: Tue, 1 Aug 95 08:57:32 EDT 
From: mikel@ora.com (Michael Loukides) 
Message-Id: <9508011257.AA00672@los.ora.com> 
Subject: Re: Ksh debugger from Rosenblatt's book [for bash] 
To: Chet Ramey <chet@odin.INS.CWRU.Edu> 
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com 
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400 

I've modified a (modified) version of Bill Rosenblatt's ksh debugger 
to work with bash-2.0. Does ORA have any problem with me distributing 
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and 
stick it in our ftp archive, and put a reference to it in the book. 
(Too late to actually discuss the thing, at least for this edition).

-------
From spcecdt@armory.com Wed May 10 10:21:11 1995 
Flags: 10 
Return-Path: spcecdt@armory.com
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

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

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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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Although the Lesser General Public License is less protective of the
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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 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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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.

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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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be combined with the library in order to run.

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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 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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Julian Seward, jseward@bzip.org
bzzip2/libbzzip2 version 1.0.6 of 6 September 2010

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

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix,
Contributors:
The Red Hat developers, without whom CentOS would look very different

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@c ispell-local-pdict: "ispell-dict"
@c End:
#!/bin/sh
# make sure `md5sum -c' works for alternate BSD format (md5 -r)

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. "${srcdir=}/init.sh"; path_prepend_ ./src
print_ver_ md5sum

# Note we start this list with a name
# that's unambiguous in BSD format.
# I.E. one not starting with " " or "*
for i in 'a' ' b' "'c' 'dd'" ; do
echo "${i}" > "$i"
md5sum "$i" >> check.md5sum
done
sed 's/ / /' check.md5sum > check.md5

# Note only a single format is supported per run
md5sum --strict -c check.md5sum || fail=1
md5sum --strict -c check.md5 || fail=1

# If we skip the first entry in the BSD format checksums
# then it’ll be detected as standard format and error.
# This unlikely caveat was thought better than mandating
# an option to avoid the ambiguity.
tail -n+2 check.md5 | md5sum --strict -c && fail=1

Exit $fail

1.30 coreutils 8.22 :11.el7

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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.

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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).

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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<one line to give the program's name and a brief idea of what it does.>
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<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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1.33 cracklib 2.8.18 :r6
1.33.1 Available under license:

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Fryssinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan

Re: [Cracklib-devel] cracklib license
From: Mike Fryssinger <vapier@ge...> - 2007-10-02 01:33
Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
______________________________________________
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
Open Source Used In Cisco Nexus 9000 Series 7.0(3)I4(6)

> it was enough to just get it consistent and documented as to what
> it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
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> applications are also GPL-2 which imo is just wrong, it isn't the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
>>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small
bit of
additional code, so whatever licensing y'all come up with is fine
by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> make the change now?
> yes. go for it. thanks++

    Nathan Neulinger is the only one who can actually make said change ...
    -mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtrp020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 110cX-0004QT-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1l2dd471059ff9a4@mail.gmail.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> >-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um... 
University of Missouri - Rolla Phone: (573) 341-6679 
UMR Information Technology Fax: (573) 341-4216

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....
My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@g...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> > >
> > > My apologies for not chiming in in anything resembling a reasonable
> > > timeframe.
> > >
> > > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > > GPLv2 with the option of using the library under a later version of the
> > > GPL would permit applications which were released under version 3 of the
> > > GPL to use the library, too, which would be sufficient for the packages
> > > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> > >
> > > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxptr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE14B7110C3D723E235CEF44F31EUMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE69F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> 
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.
>
The license for my code in the Cracklib distribution is henceforth GPL.
>
Happy now? :-)
>
-a

#!/usr/bin/python
# Copyright 2009, 2012 Jan Dittberner <jan@dittberner.info>
#
# This file is part of cracklib.
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1.35 createrepo 0.4.11
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Version 2.1, February 1999

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

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Version 2, June 1991

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1.39 curl 7.29.0 :25.el7.centos
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libcurl http://curl.haxx.se/docs/copyright.html

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GnuTLS  http://www.gnutls.org/

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yassl  http://www.yassl.com/

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axTLS  http://axtls.sourceforge.net/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

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libssh2 http://www.libssh2.org/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
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1.40 curl 7.24.0 :r8

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zlib http://www.gzip.org/zlib/zlib_license.html

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1.41 curlcpp 1.0

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1.42 cyrus-sasl 2.1.26 :17.el7

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1.43 cyrus-sasl/libdes 2.1.26 :17.el7

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1.44 db 5.3.15 :r7
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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* 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.
* 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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### 1.49 diffutils 3.2 :r7

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Version 3, 29 June 2007

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1.50 Doxia Core 1.0-alpha-4

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBSJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBSJS))
$(MV) pic/$(BSD_LIB)
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) \ sed -e 's;lib/;\';"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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** library. This does NOT imply that all of Samba is released
#!/bin/sh

find . -type f ! -name "*~" ! -exec grep -q Begin-Header '{}'; -print |
grep -v ^./build

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Follows the GNU license.

Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mknod -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$<

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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#!/bin/sh

find . -type f ! -name "*~" ! -exec grep -q Begin-Header \{|\} \; -print \
| grep -v ^./build

This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.
Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the Common Error
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system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.
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Theodore Ts'o
23-June-2007

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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 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.

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====================================================================

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Ty Coon, President of Vice

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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 other code 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.

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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"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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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
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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.

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 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 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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## 1.71 gawk 4.0.0 :r1

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Version 3, 29 June 2007


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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.

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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 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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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.

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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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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.

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a) Accompany the combined library with a copy of the same work
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1.72 gcc 4.8.3 :9.el7

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* m4/ax_func_which_gethostbyname_r.m4

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# You should have received a copy of the GNU General Public License
# along with GCC; see the file COPYING3. If not see
# <http://www.gnu.org/licenses/>.
# 128 bit long double support was introduced with GCC 4.6.0 for FreeBSD.
# These lines make the symbols to get a @@GCC_4.6.0.

```c
%exclude {
    __addtf3
    __copysigntf3
    __divtc3
    __divtf3
    __eqtf2
    __extenddftr2
    __extendsftr2
    __extendxftf2
    __fabsf2
    __fixtdi
    __fixtfsi
    __fixtfi
    __fixunstfdi
    __fixunstfspi
    __fixunstfti
    __floatdfif
    __floatsfif
    __floattff
    __floatundif
    __floatunstf
    __floatunstff
    __floatuntff
    __getf2
    __gttf2
    __lentf2
    __lntf2
    __multc3
    __multf3
    __negtf2
    __netf2
    __powitf2
    __subtf3
    __trunctdfif2
    __trunctsfif2
    __trunctxfif2
    __unordtf2
}

GCC_4.6.0 {
    __addtf3
    %ifndef __x86_64__
        __copysignf3
    %endif
    __divtc3
```
GCC_4.8.0 {
  __cpu_model
  __cpu_indicator_init
}

__divtf3
__eqtf2
__extenddf2
__extendsft2
__extendxf2
%ifndef __x86_64__
  __fabstf2
%endif
__fixtfdi
__fixtfsi
%ifdef __x86_64__
  __fixtfti
%endif
__fixunstfdi
__fixunstfsi
%ifdef __x86_64__
  __fixunstf2
%endif
__floatditf
__floatsf
%ifdef __x86_64__
  __floattitf
%endif
__floatunditf
__floatunstf
%ifdef __x86_64__
  __floatuntitf
%endif
__getf2
__gttf2
__letf2
__lttf2
__multc3
__multf3
__negtf2
__netf2
__powitf2
__subtf3
__trunctdf2
__trunctsf2
__trunctxf2
__unordtf2
}

Open Source Used In Cisco Nexus 9000 Series 7.0(3)(4(6)

1066
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in 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(age@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.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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* m4/ax_func_which_gethostname_r.m4

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Version 3.1, 31 March 2009

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1.74 gdb 7.4.50.20120716 :r2

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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@appendixsubsec Preamble

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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 @dfn{Lesser} General Public License because it does @emph{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.

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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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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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@item
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@end enumerate

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Version 3, 29 June 2007

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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.

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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.

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1.78 glib2 2.40.0 :4.el7

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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
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a textual and legal sense, the linked executable is a combined work, a
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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
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changes in the actual functions of the Library.) The hope is that this
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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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      (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
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This option is useful when you wish to copy part of the code of
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1.80 glibc 2.17 :106.el7_2.1

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@subheading Preamble

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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.

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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
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We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{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.

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\begin{itemize}
\item 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''.)

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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 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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1.91 gzip 1.5 :7.el7

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1.112 java-getopt 1.0.9

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1.119 jsonrpc2-base 1.35

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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

That's all there is to it!
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
  * 1) skb->destructor / skb->atm.recycle_buffer
  *       combined, allow nicstar_free_rx_skb to be called to
  *       recycle large data buffers
  * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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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 associated interface definition files, plus the scripts used to control compilation and installation of the executable. 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.

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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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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
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

1.125 kmod 14 :10.el7

1.125.1 Available under license :

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h  
kadmin/server/ipropd_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb_convert.c  
lib/kdb/kdb_log.c  
lib/kdb/kdb_log.h  
lib/krb5/error_tables/kdb5_err.et  
slave/kpropd_rpc.c  
slave/kproplog.c

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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.

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

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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 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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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:

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
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performing this distribution.

d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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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
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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
the executable.

It may happen that this requirement contradicts the license
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TERMS AND CONDITIONS

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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.

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1.131 libcap 2.22 :r5

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1.137 libevent 2.0.16 :r2

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in 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 (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX...
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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
@ifinfo
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@end ifinfo

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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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@item
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@item
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.

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
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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.

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.

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.

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:

- 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.)

- 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.

- 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.
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.

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 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 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.

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:

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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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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
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@ifinfo
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@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

That's all there is to it!

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Version 3, 29 June 2007

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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.

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.


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.

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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:

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   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.

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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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   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.

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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
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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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@end smallexample

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) 19@var{yy} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
@end smallexample

```
type \texttt{`show w'}. This is free software, and you are welcome
to redistribute it under certain conditions; type \texttt{`show c'}
for details.
@end smallexample

The hypothetical commands \samp{show w} and \samp{show c} should show
the appropriate parts of the General Public License. Of course, the
commands you use may be called something other than \samp{show w} and
\samp{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 is a sample; alter the names:

@example
@group
Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.
@end group
@end example

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consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
@end node
@end unnumbered

@end cindex

Liberal General Public License

@end display

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version number 2.1.]
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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 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.

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@item
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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 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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@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.

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@item
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copyright notice for the Library among them, as well as a reference
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of these things:

@enumerate
@item
Accompany the work with the complete corresponding
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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
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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
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@item
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library already present on the user's computer system, rather than
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@item
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@item
If distribution of the work is made by offering access to copy
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specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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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.

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free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
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We call this license the \textit{Lesser} General Public License because it does \textit{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \textit{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 \textit{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.

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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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  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.)
@end enumerate

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
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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.

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.

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.
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.

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
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Library is used in it and that the Library and its use are covered by
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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.)

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.

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.

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.

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 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 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.

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:

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.

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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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:

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   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.

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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.

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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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1.148 liblzma5 5.1.1alpha :r0
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1.157 libpcre 8.21 :r1

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1.158 libpwquality 1.2.3 :4.el7

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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.

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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 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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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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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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For an executable, the required form of the "work that uses the
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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 user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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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Section 6 states terms for distribution of such executables.

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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.

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1.172 libusb1 1.0.8 :r5

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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.

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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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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 the executable.

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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.

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

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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 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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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.
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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.)

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1.178 libxcb 1.8.1 :r0

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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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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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1.203 ncurses 5.9 :r13.1

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1.204 ncurses 5.9 :13.20130511.el7

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1.219 ocf-linux 2.0120127E7

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* version: Security.L.1.0.2-229

**************************************************************************
/*	$OpenBSD: hifn7751.c,v 1.120 2002/05/17 00:33:34 deraadt Exp$	*/

/*$OpenBSD: hifn7751.c,v 1.120 2002/05/17 00:33:34 deraadt Exp $*/

/*.
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*
__FBSDID("$FreeBSD: src/sys/dev/hifn/hifn7751.c,v 1.40 2007/03/21 03:42:49 sam Exp "$);
*/
/*
* An OCF module that uses Intels IXP CryptACC API to do the crypto.
* This driver requires the IXP400 Access Library that is available
* from Intel in order to operate (or compile).
*
* Written by David McCullough <david_mccullough@mcafee.com>
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*/

#include <linux/version.h>
#if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,38) && !defined(AUTOCONF_INCLUDED)
#include <linux/config.h>
#endif
#include <linux/module.h>
#include <linux/init.h>
#include <linux/list.h>
#include <linux/slab.h>
#include <linux/sched.h>
#include <linux/wait.h>
#include <linux/crypto.h>
#include <linux/interrupt.h>
#include <asm/scatterlist.h>
#include <IxTypes.h>
#include <IxOsBuffMgt.h>
#include <IxNpeDl.h>
#include <IxCryptoAcc.h>
#include <IxQMgr.h>
#include <IxOsServices.h>
#include <IxOsCacheMMU.h>

#include <cryptodev.h>
#include <uio.h>

#ifndef IX_MBUF_PRIV
#define IX_MBUF_PRIV (x)->priv
#endif

struct ixp_data;

struct ixp_q {
  struct list_head ixp_q_list;
  struct ixp_data* ixp_q_data;
  struct cryptop* ixp_q_crp;
  struct cryptodesc* ixp_q_ccrd;
  struct cryptodesc* ixp_q_acrd;
  struct IX_MBUF ixp_q_mbuf;
UINT8*ixp_hash_dest; /* Location for hash in client buffer */
UINT8*ixp_hash_src; /* Location of hash in internal buffer */
unsigned char ixp_q_iv_data[IX_CRYPTO_ACC_MAX_CIPHER_IV_LENGTH];
unsigned char*ixp_q_iv;
}

struct ixp_data {
    int ixp_registered;/* is the context registered */
    int ixp_erd_flags;/* detect direction changes */

    int ixp_cipher_alg;
    int ixp_auth_alg:

    UINT32 ixp_ctx_id;
    UINT32 ixp_hash_key_id;/* used when hashing */
    IX_CryptoAccCtx ixp_ctx;
    IX_MBUF ixp_pri_mbuf;
    IX_MBUF ixp_sec_mbuf;

    struct work_struct  ixp_pending_work;
    struct work_struct  ixp_registration_work;
    struct list_head ixp_q;/* unprocessed requests */
};

#ifdef __ixp46X

#define MAX_IOP_SIZE64/* words */
#define MAX_OOP_SIZE128

#define MAX_PARAMS3

struct ixpPkq {
    struct list_head pkq_list;
    struct cryptkop*pkq_krp;

    IX_CryptoAccPkeEauInOperands pkq_op;
    IX_CryptoAccPkeEauOpResult pkq_result;

    UINT32 pkq_ibuf0[MAX_IOP_SIZE];
    UINT32 pkq_ibuf1[MAX_IOP_SIZE];
    UINT32 pkq_ibuf2[MAX_IOP_SIZE];
    UINT32 pkq_obuf[MAX_OOP_SIZE];
};

static LIST_HEAD(ixpPkq); /* current PK wait list */
static struct ixpPkq *ixpPkq_cur;
static spinlock_t ixpPkq_lock;
static int ixp_blocked = 0;
static int32_t ixp_id = -1;
static struct ixp_data **ixp_sessions = NULL;
static u_int32_t ixp_sesnum = 0;

static int ixp_process(device_t, struct cryptop *, int);
static int ixp_newsession(device_t, u_int32_t *, struct cryptoini *);
static int ixp_freesession(device_t, u_int64_t);
#ifdef __ixp46X
static int ixp_kprocess(device_t, struct cryptkop *krp, int hint);
#endif

#if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,20)
static kmem_cache_t *qcache;
#else
static struct kmem_cache *qcache;
#endif
#define debug ixp_debug
static int ixp_debug = 0;
module_param(ixp_debug, int, 0644);
MODULE_PARM_DESC(ixp_debug, "Enable debug");

static int ixp_init_crypto = 1;
module_param(ixp_init_crypto, int, 0444); /* RO after load/boot */
MODULE_PARM_DESC(ixp_init_crypto, "Call ixCryptoAccInit (default is 1)");

static void ixp_process_pending(void *arg);
static void ixp_registration(void *arg);
#ifdef LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void ixp_process_pending_wq(struct work_struct *work);
static void ixp_registration_wq(struct work_struct *work);
#endif
/
* dummy device structure
*/

static struct {
    softc_device_declsc_dev;
} ixpdev;

static device_method_t ixp_methods = {
    /* crypto device methods */
    DEVMETHOD(cryptodev_newsession, ixp_newsession),
    DEVMETHOD(cryptodev_freesession, ixp_freesession),
    DEVMETHOD(cryptodev_kprocess, ixp_kprocess),
    DEVMETHOD(cryptodev_process_pending, ixp_process_pending),
    DEVMETHOD(cryptodev_process_pending_wq, ixp_process_pending_wq),
    DEVMETHOD(cryptodev_registration, ixp_registration),
    DEVMETHOD(cryptodev_registration_wq, ixp_registration_wq),
};
DEVMETHOD(cryptodev_freesession,ixp_freesession),
DEVMETHOD(cryptodev_process,ixp_process),
#ifdef __ixp46X
DEVMETHOD(cryptodev_kprocess,ixp_kprocess),
#endif
};

/*
 * Generate a new software session.
 */

static int
ixp_newsession(device_t dev, u_int32_t *sid, struct cryptoini *cri)
{
    struct ixp_data *ixp;
    u_int32_t i;

    #define AUTH_LEN(cri, def) \
    ((cri->cri_mlen ? cri->cri_mlen : (def))
    
    dprintk("%s():alg %d\n", __FUNCTION__, cri->cri_alg);
    if (sid == NULL || cri == NULL) {
        dprintk("%s,%d - EINVAL\n", __FILE__, __LINE__);
        return EINVAL;
    }

    if (ixp_sessions) {
        for (i = 1; i < ixp_sesnum; i++)
            if (ixp_sessions[i] == NULL)
                break;
        } else
            i = 1; /* NB: to silence compiler warning */

    if (ixp_sessions == NULL || i == ixp_sesnum) {
        struct ixp_data **ixpd;

        if (ixp_sessions == NULL) {
            i = 1; /* We leave ixp_sessions[0] empty */
            ixp_sesnum = CRYPTO_SW_SESSIONS;
        } else
            ixp_sesnum *= 2;

        ixpd = kmalloc(ixp_sesnum * sizeof(struct ixp_data *), SLAB_ATOMIC);
        if (ixpd == NULL) {
            /* Reset session number */
            if (ixp_sesnum == CRYPTO_SW_SESSIONS)
                ixp_sesnum = 0;
            else
                ixp_sesnum /= 2;
            dprintk("%s,%d: ENOBUFS\n", __FILE__, __LINE__);
        }

        struct ixp_data *ixp;
        u_int32_t i;
        ixp = kmalloc(sizeof(struct ixp_data), SLAB_ATOMIC);
        if (ixp == NULL) {
            ixp->ixp_sessnum = 0;
            } else
            ixp->ixp_sessnum = 1;

        struct cryptoini *cri;
        ixp->ixp_sessnum = 1;
        dprintk("%s,%d: cryptoini\n", __FILE__, __LINE__);
    }

    struct cryptoini *cri;
    ixp->ixp_sessnum = 1;
    dprintk("%s,%d: cryptoini\n", __FILE__, __LINE__);
}
return ENOBUFS;
}
memset(ixpd, 0, ixp_sesnum * sizeof(struct ixp_data));

/* Copy existing sessions */
if (ixp_sessions) {
    memcpy(ixpd, ixp_sessions,
           (ixp_sesnum / 2) * sizeof(struct ixp_data));
kfree(ixp_sessions);
}
ixp_sessions = ixpd;

ixp_sessions[i] = (struct ixp_data *) kmalloc(sizeof(struct ixp_data),
SLAB_ATOMIC);
if (ixp_sessions[i] == NULL) {
    kfree(ixp_sessions[i]);
dprintf("%s,%d: EINVAL\n", __FILE__, __LINE__);
    return ENOBUFS;
}

*sid = i;
ixp = ixp_sessions[i];
memset(ixp, 0, sizeof(*ixp));

ixp->ixp_cipher_alg = -1;
ixp->ixp_auth_alg = -1;
ixp->ixp_ctx_id = -1;
INIT_LIST_HEAD(&ixp->ixp_q);

ixp->ixp_ctx.useDifferentSrcAndDestMbufs = 0;

while (cri) {
    switch (cri->cri_alg) {
    case CRYPTO_DES_CBC:
        ixp->ixp_cipher_alg = cri->cri_alg;
        ixp->ixp_ctx.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_DES;
        ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
        ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
        ixp->ixp_ctx.cipherCtx.cipherBlockLen = IX_CRYPTO_ACC_DES_BLOCK_64;
        ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen =
            IX_CRYPTO_ACC_DES_IV_64;
        memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey,
            cri->cri_key, (cri->cri_klen + 7) / 8);
        break;
case CRYPTO_3DES_CBC:
ixp->ixp_cipher_alg = cri->cri_alg;
ixp->ixp_ctx.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_3DES;
ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
ixp->ixp_ctx.cipherCtx.cipherBlockLen = IX_CRYPTO_ACC_DES_BLOCK_64;
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen = 
IX_CRYPTO_ACC_DES_IV_64;
memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey,
cri->cri_key, (cri->cri_klen + 7) / 8);
break;

case CRYPTO_RIJNDAEL128_CBC:
ixp->ixp_cipher_alg = cri->cri_alg;
ixp->ixp_ctx.cipherCtx.cipherAlgo = IX_CRYPTO_ACC_CIPHER_AES;
ixp->ixp_ctx.cipherCtx.cipherMode = IX_CRYPTO_ACC_MODE_CBC;
ixp->ixp_ctx.cipherCtx.cipherKeyLen = (cri->cri_klen + 7) / 8;
ixp->ixp_ctx.cipherCtx.cipherBlockLen = 16;
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen = 16;
memcpy(ixp->ixp_ctx.cipherCtx.key.cipherKey,
cri->cri_key, (cri->cri_klen + 7) / 8);
break;

case CRYPTO_MD5:
case CRYPTO_MD5_HMAC:
ixp->ixp_auth_alg = cri->cri_alg;
ixp->ixp_ctx.authCtx.authAlgo = IX_CRYPTO_ACC_AUTH_MD5;
ixp->ixp_ctx.authCtx.authDigestLen = AUTH_LEN(cri, MD5_HASH_LEN);
ixp->ixp_ctx.authCtx.aadLen = 0;
/* Only MD5_HMAC needs a key */
if (cri->cri_alg == CRYPTO_MD5_HMAC) {
ixp->ixp_ctx.authCtx.authKeyLen = (cri->cri_klen + 7) / 8;
if (ixp->ixp_ctx.authCtx.authKeyLen >
sizeof(ixp->ixp_ctx.authCtx.key.authKey)) {
printk("ixp4xx: Invalid key length for MD5_HMAC - %d bits\n",
cri->cri_klen);
ixp_freesession(NULL, i);
return EINVAL;
}
memcpy(ixp->ixp_ctx.authCtx.key.authKey,
cri->cri_key, (cri->cri_klen + 7) / 8);
}
break;

case CRYPTO_SHA1:
case CRYPTO_SHA1_HMAC:
ixp->ixp_auth_alg = cri->cri_alg;
ixp->ixp_ctx.authCtx.authAlgo = IX_CRYPTO_ACC_AUTH_SHA1;
ixp->ixp_ctx.authCtx.authDigestLen = AUTH_LEN(cri, SHA1_HASH_LEN);
ixp->ixp_ctx.authCtx.aadLen = 0;
/* Only SHA1_HMAC needs a key */
if (cri->cri_alg == CRYPTO_SHA1_HMAC) {
  ixp->ixp_ctx.authCtx.authKeyLen = (cri->cri_klen + 7) / 8;
  if (ixp->ixp_ctx.authCtx.authKeyLen >
      sizeof(ixp->ixp_ctx.authCtx.key.authKey)) {
    printk("ixp4xx: Invalid key length for SHA1_HMAC - %d bits\n",
           cri->cri_klen);
    ixp_freesession(NULL, i);
    return EINVAL;
  }
  memcpy(ixp->ixp_ctx.authCtx.key.authKey,
         cri->cri_key, (cri->cri_klen + 7) / 8);
  break;
}
default:
  printk("ixp: unknown algo 0x%x\n", cri->cri_alg);
  ixp_freesession(NULL, i);
  return EINVAL;
}
cri = cri->cri_next;
}

#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
INIT_WORK(&ixp->ixp_pending_work, ixp_process_pending_wq);
INIT_WORK(&ixp->ixp_registration_work, ixp_registration_wq);
#else
INIT_WORK(&ixp->ixp_pending_work, ixp_process_pending, ixp);
INIT_WORK(&ixp->ixp_registration_work, ixp_registration, ixp);
#endif

return 0;
}

كسب a session.
*/
static int
ixp_freesession(device_t dev, u_int64_t tid)
{
  u_int32_t sid = CRYPTO_SESID2LID(tid);
  dprintf("%s()\n", __FUNCTION__);

if (sid > ixp_sesnum || ixp_sessions == NULL ||
ixp_sessions[sid] == NULL) {
    dprintk("%s,%d: EINVAL\n", __FILE__, __LINE__);
    return EINVAL;
}

/* Silently accept and return */
if (sid == 0)
    return 0;

if (ixp_sessions[sid]) {
    if (ixp_sessions[sid]->ixp_ctx_id != -1) {
        ixCryptoAccCtxUnregister(ixp_sessions[sid]->ixp_ctx_id);
        ixp_sessions[sid]->ixp_ctx_id = -1;
    }
    kfree(ixp_sessions[sid]);
}
ixp_sessions[sid] = NULL;
if (ixp_blocked) {
    ixp_blocked = 0;
    crypto_unblock(ixp_id, CRYPTO_SYMQ);
}
return 0;

/*
 * callback for when hash processing is complete
 */

static void
ixp_hash_perform_cb(
    UINT32 hash_key_id,
    IX_MBUF *bufp,
    IXCryptoAccStatus status)
{
    struct ixp_q *q;

dprintk("%s(%u, %p, 0x%lx)\n", __FUNCTION__, hash_key_id, bufp, status);

    if (bufp == NULL) {
        printk("ixp: NULL buf in %s\n", __FUNCTION__);
        return;
    }

    q = IX_MBUF_PRIV(bufp);
    if (q == NULL) {
        printk("ixp: NULL priv in %s\n", __FUNCTION__);
    }
return;
}

if (status == IX_CRYPTO_ACC_STATUS_SUCCESS) {
/* On success, need to copy hash back into original client buffer */
memcpy(q->ixp_hash_dest, q->ixp_hash_src,
(q->ixp_q_data->ixp_auth_alg == CRYPTO_SHA1) ?
SHA1_HASH_LEN : MD5_HASH_LEN);
}
else {
printk("ixp: hash perform failed status=%d\n", status);
q->ixp_q_crp->crp_etype = EINVAL;
}

/* Free internal buffer used for hashing */
kfree(IX_MBUF_MDATA(&q->ixp_q_mbuf));
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

/*
* setup a request and perform it
*/
static void
ixp_q_process(struct ixp_q *q)
{
IxCryptoAccStatus status;
struct ixp_data *ixp = q->ixp_q_data;
int auth_off = 0;
int auth_len = 0;
int crypt_off = 0;
int crypt_len = 0;
icv_off = 0;
icvlen = 0;
crypt_func;
dprintk("%s(%p)\n", __FUNCTION__, q);

if (q->ixp_q_crd) {
if (q->ixp_q_crd->crd_flags & CRD_F_ENCRYPT) {
if (q->ixp_q_crd->crd_flags & CRD_F_IV_EXPLICIT) {
q->ixp_q_iv = q->ixp_q_crd->crd_iv;
} else {
q->ixp_q_iv = q->ixp_q_iv_data;
read_random(q->ixp_q_iv, ixp->ixp_ctxt.cipherCtx.cipherInitialVectorLen);
}
if ((q->ixp_q_crd->crd_flags & CRD_F_IV_PRESENT) == 0)
crypto_copyback(q->ixp_q_crp->crp_flags, q->ixp_q_crp->crp_buf,
q->ixp_q_ccrd->crd_inject,
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen,
(caddr_t) q->ixp_q_iv);
} else {
if (q->ixp_q_ccrd->crd_flags & CRD_F_IV_EXPLICIT)
q->ixp_q_iv = q->ixp_q_ccrd->crd_iv;
else {
q->ixp_q_iv = q->ixp_q_iv_data;
crypto_copydata(q->ixp_q_crp->crp_flags, q->ixp_q_crp->crp_buf,
q->ixp_q_ccrd->crd_inject,
ixp->ixp_ctx.cipherCtx.cipherInitialVectorLen,
(caddr_t) q->ixp_q_iv);
}
}

if (q->ixp_q_acrd) {
auth_off = q->ixp_q_acrd->crd_skip;
auth_len = q->ixp_q_acrd->crd_len;
icv_off  = q->ixp_q_acrd->crd_inject;
}
crypt_off = q->ixp_q_ccrd->crd_skip;
crypt_len = q->ixp_q_ccrd->crd_len;
} else { /* if (q->ixp_q_acrd) */
auth_off = q->ixp_q_acrd->crd_skip;
auth_len = q->ixp_q_acrd->crd_len;
icv_off  = q->ixp_q_acrd->crd_inject;
}

if (q->ixp_q_crp->crp_flags & CRYPTO_F_SKBUF) {
struct sk_buff *skb = (struct sk_buff *) q->ixp_q_crp->crp_buf;
if (skb_shinfo(skb)->nr_frags) {
/*
 * DAVIDM fix this limitation one day by using
 * a buffer pool and chaining. it is not currently
 * needed for current user/kernel space acceleration
 */
printk("ixp: Cannot handle fragmented skb's yet !\n");
q->ixp_q_crp->crp_etype = ENOENT;
goto done;
}
IX_MBUF_MLEN(&q->ixp_q_mbuf) =
IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = skb->len;
IX_MBUF_MDATA(&q->ixp_q_mbuf) = skb->data;
} else if (q->ixp_q_crp->crp_flags & CRYPTO_F_IOV) {
struct uio *uiop = (struct uio *) q->ixp_q_crp->crp_buf;
if (uiop->uio_iovcnt != 1) {
/*
* DAVIDM fix this limitation one day by using
* a buffer pool and chaining. it is not currently
* needed for current user/kernel space acceleration
*/
printk("ixp: Cannot handle more than 1 iovec yet !n");
q->ixp_q_crp->crp_etype = ENOENT;
goto done;
}
IX_MBUF_MLEN(&q->ixp_q_mbuf) =
IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = uiop->uio iov[0].iov_len;
IX_MBUF_MDATA(&q->ixp_q_mbuf) = uiop->uio iov[0].iov_base;
} else /* contig buffer */ {
IX_MBUF_MLEN(&q->ixp_q_mbuf) =
IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) = q->ixp_q_crp->crp_ilen;
IX_MBUF_MDATA(&q->ixp_q_mbuf) = q->ixp_q_crp->crp_buf;
}
IX_MBUF_PRIV(&q->ixp_q_mbuf) = q;

if (ixp->ixp_auth_alg == CRYPTO_SHA1 || ixp->ixp_auth_alg == CRYPTO_MD5) {
/*
 * For SHA1 and MD5 hash, need to create an internal buffer that is big
 * enough to hold the original data + the appropriate padding for the
 * hash algorithm.
 */
UINT8 *tbuf = NULL;

IX_MBUF_MLEN(&q->ixp_q_mbuf) = IX_MBUF_PKT_LEN(&q->ixp_q_mbuf) =
((IX_MBUF_MLEN(&q->ixp_q_mbuf) * 8) + 72 + 511) / 8;
tbuf = kmalloc(IX_MBUF_MLEN(&q->ixp_q_mbuf), SLAB_ATOMIC);
if (IX_MBUF_MDATA(&q->ixp_q_mbuf) == NULL) {
printk("ixp: kmalloc(%u, SLAB_ATOMIC) failed",
IX_MBUF_MLEN(&q->ixp_q_mbuf));
q->ixp_q_crp->crp_etype = ENOMEM;
goto done;
}
memcpy(tbuf, &(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_off], auth_len);
/* Set location in client buffer to copy hash into */
q->ixp_hash_dest =
&(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_off + auth_len];
IX_MBUF_MDATA(&q->ixp_q_mbuf) = tbuf;

/* Set location in internal buffer for where hash starts */
q->ixp_hash_src = &(IX_MBUF_MDATA(&q->ixp_q_mbuf))[auth_len];
crypt_func = "ixCryptoAccHashPerform";
status = ixCryptoAccHashPerform(ixp->ixp_ctx.authCtx.authAlgo,
&q->ixp_q_mbuf, ixp_hash_perform_cb, 0, auth_len, auth_len,
&ixp->ixp_hash_key_id);
}
else {
crypt_func = "ixCryptoAccAuthCryptPerform";
status = ixCryptoAccAuthCryptPerform(ixp->ixp_ctx_id, &q->ixp_q_mbuf,
NULL, auth_off, auth_len, crypt_off, crypt_len, icv_off,
q->ixp_q_iv);
}

if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
return;

if (IX_CRYPTO_ACC_STATUS_QUEUE_FULL == status) {
q->ixp_q_crp->crp_etype = ENOMEM;
goto done;
}

printk("ixp: %s failed %u\n", crypt_func, status);
q->ixp_q_crp->crp_etype = EINVAL;
done:
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

/*
 * because we cannot process the Q from the Register callback
 * we do it here on a task Q.
 */

static void
ixp_process_pending(void *arg)
{
struct ixp_data *ixp = arg;
struct ixp_q *q = NULL;

dprintk("%s(%p)n", __FUNCTION__, arg);

if (!ixp)
return;

while (!list_empty(&ixp->ixp_q)) {
q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
list_del(&q->ixp_q_list);
ixp_q_process(q);
}

#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void
ixp_process_pending_wq(struct work_struct *work)
{
struct ixp_data *ixp = container_of(work, struct ixp_data, ixp_pending_work);
ixp_process_pending(ixp);
}
#endif

/*
 * callback for when context registration is complete
 */

static void
ixp_register_cb(UINT32 ctx_id, IX_MBUF *bufp, IXCryptoAccStatus status)
{
int i;
struct ixp_data *ixp;
struct ixp_q *q;

dprintf("%s(%d, %p, %d)\n", __FUNCTION__, ctx_id, bufp, status);

/*
 * free any buffer passed in to this routine
 */
if (bufp) {
IX_MBUF_MLEN(bufp) = IX_MBUF_PKT_LEN(bufp) = 0;
kfree(IX_MBUF_MDATA(bufp));
IX_MBUF_MDATA(bufp) = NULL;
}

for (i = 0; i < ixp_sesnum; i++) {
ixp = ixp_sessions[i];
if (ixp && ixp->ixp_ctx_id == ctx_id)
break;
}
if (i >= ixp_sesnum) {
printk("ixp: invalid context id %d\n", ctx_id);
return;
}

if (IX_CRYPTO_ACC_STATUS_WAIT == status) {
/* this is normal to free the first of two buffers */
dprintf("ixp: register not finished yet.\n");
}
return;

if (IX_CRYPTO_ACC_STATUS_SUCCESS != status) {
    printk("ixp: register failed 0x%\n", status);
    while (!list_empty(&ixp->ixp_q)) {
        q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
        list_del(&q->ixp_q_list);
        q->ixp_q_crp->crp_etype = EINVAL;
        crypto_done(q->ixp_q_crp);
        kmem_cache_free(qcache, q);
    }
    return;
}

/*
 * we are now registered, we cannot start processing the Q here
 * or we get strange errors with AES (DES/3DES seem to be ok).
 */
ixp->ixp_registered = 1;
schedule_work(&ixp->ixp_pending_work);
}

/*
 * callback for when data processing is complete
 */
static void
ixp_perform_cb(
    UINT32 ctx_id,
    IX_MBUF *sbufp,
    IX_MBUF *dbufp,
    IX_CRYPTO_ACC_STATUS status)
{
    struct ixp_q *q;

dprintf("%s(%d, %p, %p, 0x%\n", __FUNCTION__, ctx_id, sbufp, dbufp, status);

    if (sbufp == NULL) {
        printk("ixp: NULL sbuf in ixp_perform_cb\n");
        return;
    }

    q = IX_MBUF_PRIV(sbufp);
    if (q == NULL) {
        printk("ixp: NULL priv in ixp_perform_cb\n");
    }
return;
}

if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
printk("ixp: perform failed status=%d\n", status);
q->ixp_q_crp->crp_etype = EINVAL;
}
crypto_done(q->ixp_q_crp);
kmem_cache_free(qcache, q);
}

/*********************************************************
* registration is not callable at IRQ time, so we defer
* to a task queue, this routines completes the registration for us
* when the task queue runs
*
* Unfortunately this means we cannot tell OCF that the driver is blocked,
* we do that on the next request.
*="/n

static void
ixp_registration(void *arg)
{
struct ixp_data *ixp = arg;
struct ixp_q *q = NULL;
IX_MBUF *pri = NULL, *sec = NULL;
int status = IX_CRYPTO_ACC_STATUS_SUCCESS;

if (!ixp) {
printk("ixp: ixp_registration with no arg\n");
return;
}

if (ixp->ixp_ctx_id != -1) {
ixCryptoAccCtxUnregister(ixp->ixp_ctx_id);
ixp->ixp_ctx_id = -1;
}

if (list_empty(&ixp->ixp_q)) {
printk("ixp: ixp_registration with no Q\n");
return;
}

/*********************************************************,
* setup the primary and secondary buffers
*/
q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
if (q->ixp_q_acrd) {
    pri = &ixp->ixp_pri_mbuf;
    sec = &ixp->ixp_sec_mbuf;
    IX_MBUF_MLEN(pri) = IX_MBUF_PKT_LEN(pri) = 128;
    IX_MBUF_MDATA(pri) = (unsigned char *) kmalloc(128, SLAB_ATOMIC);
    IX_MBUF_MLEN(sec) = IX_MBUF_PKT_LEN(sec) = 128;
    IX_MBUF_MDATA(sec) = (unsigned char *) kmalloc(128, SLAB_ATOMIC);
}
/* Only need to register if a crypt op or HMAC op */
if (!(ixp->ixp_auth_alg == CRYPTO_SHA1 ||
    ixp->ixp_auth_alg == CRYPTO_MD5)) {
    status = ixCryptoAccCtxRegister(
        &ixp->ixp_ctx,
        pri, sec,
        ixp_register_cb,
        ixp_perform_cb,
        &ixp->ixp_ctx_id);
} else {
/* Otherwise we start processing pending q */
schedule_work(&ixp->ixp_pending_work);
}
if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
    return;
if (IX_CRYPTO_ACC_STATUS_EXCEED_MAX_TUNNELS == status) {
    printk("ixp: ixCryptoAccCtxRegister failed (out of tunnels)\n");
    ixp_blocked = 1;
/* perhaps we should return EGAIN on queued ops ? */
    return;
}
printk("ixp: ixCryptoAccCtxRegister failed %d\", status);
ixp->ixp_ctx_id = -1;

/*
 * everything waiting is toasted
 */
while (!list_empty(&ixp->ixp_q)) {
    q = list_entry(ixp->ixp_q.next, struct ixp_q, ixp_q_list);
    list_del(&q->ixp_q_list);
    q->ixp_q_crp->crp_etype = ENOENT;
    crypto_done(q->ixp_q_crp);
    kmem_cache_free(qcache, q);
}
#if LINUX_VERSION_CODE >= KERNEL_VERSION(2,6,20)
static void
ixp_registration_wq(struct work_struct *work)
{
    struct ixp_data *ixp = container_of(work, struct ixp_data,
    ixp_registration_work);
    ixp_registration(ixp);
}
#endif

/*
 * Process a request.
 */
static int
ixp_process(device_t dev, struct cryptop *crp, int hint)
{
    struct ixp_data *ixp;
    unsigned int lid;
    struct ixp_q *q = NULL;
    int status;

dprintf("%s()
", __FUNCTION__);

    /* Sanity check */
    if (crp == NULL) {
        dprintf("%s,%d: EINVAL
", __FILE__, __LINE__);
        crp->crp_etype = EINVAL;
        goto done;
    }
    crp->crp_etype = 0;

    if (ixp_blocked)
        return ERESTART;

    if (crp->crp_desc == NULL || crp->crp_buf == NULL) {
        dprintf("%s,%d: EINVAL
", __FILE__, __LINE__);
        crp->crp_etype = EINVAL;
        goto done;
    }
    crp->crp_etype = EINVAL;

dprintf("%s
", __FUNCTION__);

    /* find the session we are using */
    lid = crp->crp_sid & 0xffffffff;
    if (lid >= ixp_sesnum || lid == 0 || ixp_sessions == NULL ||
ixp_sessions[lid] == NULL) {
  crp->crp_etype = ENOENT;
  dprintk("%s,%d: ENOENT\n", __FILE__, __LINE__);
  goto done;
}
ixp = ixp_sessions[lid];

/*
 * setup a new request ready for queuing
*/
q = kmem_cache_alloc(qcache, SLAB_ATOMIC);
if (q == NULL) {
  dprintk("%s,%d: ENOMEM\n", __FILE__, __LINE__);
  crp->crp_etype = ENOMEM;
  goto done;
}

/*
 * save some cycles by only zeroing the important bits
*/
memset(&q->ixp_q_mbuf, 0, sizeof(q->ixp_q_mbuf));
q->ixp_q_ccrd = NULL;
q->ixp_q_acrd = NULL;
q->ixp_q_crp = crp;
q->ixp_q_data = ixp;

/*
 * point the cipher and auth descriptors appropriately
 * check that we have something to do
*/
if (crp->crp_desc->crd_alg == ixp->ixp_cipher_alg)
  q->ixp_q_ccrd = crp->crp_desc;
else if (crp->crp_desc->crd_alg == ixp->ixp_auth_alg)
  q->ixp_q_acrd = crp->crp_desc;
else {
  crp->crp_etype = ENOENT;
  dprintk("%s,%d: bad desc match: ENOENT\n", __FILE__, __LINE__);
  goto done;
}
if (crp->crp_desc->crd_next) {
  if (crp->crp_desc->crd_next->crd_alg == ixp->ixp_cipher_alg)
    q->ixp_q_ccrd = crp->crp_desc->crd_next;
  else if (crp->crp_desc->crd_next->crd_alg == ixp->ixp_auth_alg)
    q->ixp_q_acrd = crp->crp_desc->crd_next;
  else {
    crp->crp_etype = ENOENT;
    dprintk("%s,%d: bad desc match: ENOENT\n", __FILE__, __LINE__);
    goto done;
  }
}
if (q->ixp_q_crd && ixp->ixp_registered &&
ixp->ixp_crd_flags != (q->ixp_q_crd->crd_flags & CRD_F_ENCRYPT)) {
    dprintk("%s - detected direction change on session\n", __FUNCTION__);    ixp->ixp_registered = 0;
}

/*
 * if we are registered, call straight into the perform code
 */
if (ixp->ixp_registered) {
    ixp_q_process(q);
    return 0;
}

/*
 * the only part of the context not set in newsession is the direction
 * dependent parts
 */
if (q->ixp_q_crd) {
    ixp->ixp_crd_flags = (q->ixp_q_crd->crd_flags & CRD_F_ENCRYPT);
    if (q->ixp_q_crd->crd_flags & CRD_F_ENCRYPT) {
        ixp->ixp_ctx.operation = q->ixp_q_acrd ?
IX_CRYPTO_ACC_OP_ENCRYPT_AUTH : IX_CRYPTO_ACC_OP_ENCRYPT;
    } else {
        ixp->ixp_ctx.operation = q->ixp_q_acrd ?
IX_CRYPTO_ACC_OP_AUTH_DECRYPT : IX_CRYPTO_ACC_OP_DECRYPT;
    }
} else {
    /* q->ixp_q_acrd must be set if we are here */
    ixp->ixp_ctx.operation = IX_CRYPTO_ACC_OP_AUTH_CALC;
}

status = list_empty(&ixp->ixp_q);
list_add_tail(&q->ixp_q_list, &ixp->ixp_q);
if (status)
schedule_work(&ixp->ixp_registration_work);
return 0;
if (q)
kmem_cache_free(qcache, q);
crypto_done(crp);
return 0;
}

#ifdef __ixp46X
/*
 * key processing support for the ixp465
 */

/*
 * copy a BN (LE) into a buffer (BE) an fill out the op appropriately
 * assume zeroed and only copy bits that are significant
 */

static int
ixp_copy_ibuf(struct crparam *p, IxCryptoAccPkeEauOperand *op, UINT32 *buf)
{
unsigned char *src = (unsigned char *) p->crp_p;
unsigned char *dst;
int len, bits = p->crp_nbits;
dprintf("%s()
", __FUNCTION__);

if (bits > MAX_IOP_SIZE * sizeof(UINT32) * 8) {
dprintf("%s - ibuf too big (%d > %d)
", __FUNCTION__,
bits, MAX_IOP_SIZE * sizeof(UINT32) * 8);
return -1;
}

len = (bits + 31) / 32; /* the number UINT32's needed */

dst = (unsigned char *) &buf[len];
dst--;

while (bits > 0) {
    *dst-- = *src++;
    bits -= 8;
}

#if 0 /* no need to zero remaining bits as it is done during request alloc */
while (dst > (unsigned char *) buf)
    *dst-- = '0';
#endif
op->pData = buf;
op->dataLen = len;
return 0;
}

/*
 * copy out the result, be as forgiving as we can about small output buffers
 */

static int
ixp_copy_obuf(struct crparam *p, IxCryptoAccPkeEauOpResult *op, UINT32 *buf)
{
unsigned char *dst = (unsigned char *) p->crp_p;
unsigned char *src = (unsigned char *) buf;
int len, z, bits = p->crp_nbits;

dprintf(
"%s()
", __FUNCTION__);

len = op->dataLen * sizeof(UINT32);

/* skip leading zeroes to be small buffer friendly */
z = 0;
while (z < len && src[z] == '\0')
    z++;

src += len;
src--; 
len -= z;

while (len > 0 && bits > 0) {
    *dst++ = *src--;
    len--;
    bits -= 8;
}

while (bits > 0) {
    *dst++ = '\0';
    bits -= 8;
}

if (len > 0) {
    dprintf("%s - obuf is %d (z=%d, ob=%d) bytes too small\n",
            __FUNCTION__, len, z, p->crp_nbits / 8);
    return -1;
}

return 0;
/*  * the parameter offsets for exp_mod  *
/*
#define IXP_PARAM_BASE 0
#define IXP_PARAM_EXP 1
#define IXP_PARAM_MOD 2
#define IXP_PARAM_RES 3
/*
  * key processing complete callback, is also used to start processing
  * by passing a NULL for pResult
  */

static void
ixp_kperform_cb(  
IxCryptoAccPkeEauOperation operation,  
IxCryptoAccPkeEauOpResult *pResult,  
BOOL carryOrBorrow,  
IxCryptoAccStatus status)
{  
struct ixp_pkq *q, *tmp;  
unsigned long flags;

dprintk("%s(0x%x, %p, %d, 0x%x)\n", __FUNCTION__, operation, pResult,  
carryOrBorrow, status);
/* handle a completed request */
if (pResult) {
    if (ixp_pk_cur && &ixp_pk_cur->pkq_result == pResult) {
        q = ixp_pk_cur;
        if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
            dprintk("%s() - op failed 0x%x\n", __FUNCTION__, status);
            q->pkq_krp->krp_status = ERANGE; /* could do better */
        } else {
            /* copy out the result */
            if (ixp_copy_obuf(&q->pkq_krp->krp_param[IXP_PARAM_RES],  
                &q->pkq_result, q->pkq_obuf))
                q->pkq_krp->krp_status = ERANGE;
            }
            crypto_kdone(q->pkq_krp);
            kfree(q);
            ixp_pk_cur = NULL;
        } else {
            printk("%s - callback with invalid result pointer\n", __FUNCTION__);
        }
    }
}
spin_lock_irqsave(&ixp_pkq_lock, flags);
if (ixp_pk_cur || list_empty(&ixp_pkq)) {
spin_unlock_irqrestore(&ixp_pkq_lock, flags);
return;
}

list_for_each_entry_safe(q, tmp, &ixp_pkq, pkq_list) {

list_del(&q->pkq_list);
ixp_pk_cur = q;

spin_unlock_irqrestore(&ixp_pkq_lock, flags);

status = ixCryptoAccPkeEauPerform(
    IX_CRYPTO_ACC_OP_EAU_MOD_EXP,
    q->pkq_op,
    ixp_kperform_cb,
    &q->pkq_result);

if (status == IX_CRYPTO_ACC_STATUS_SUCCESS) {
dprintf("%s() - ixCryptoAccPkeEauPerform SUCCESS\n", __FUNCTION__);
return; /* callback will return here for callback */
} else if (status == IX_CRYPTO_ACC_STATUS_RETRY) {
printf("%s() - ixCryptoAccPkeEauPerform RETRY\n", __FUNCTION__);
} else {
printf("%s() - ixCryptoAccPkeEauPerform failed %d\n", __FUNCTION__, status);
}
q->pkq_krp->krp_status = ERANGE; /* could do better */
crypto_kdone(q->pkq_krp);
kfree(q);
spin_lock_irqsave(&ixp_pkq_lock, flags);
}
spin_unlock_irqrestore(&ixp_pkq_lock, flags);

static int
ixp_kprocess(device_t dev, struct cryptkop *krp, int hint)
{
struct ixp_pkq *q;
int rc = 0;
unsigned long flags;

dprintf("%s l1=%d l2=%d l3=%d l4=%d\n", __FUNCTION__,
    krp->krp_param[IXP_PARAM_BASE].crp_nbits,
krp->krp_param[IXP_PARAM_EXP].crp_nbits,
krp->krp_param[IXP_PARAM_MOD].crp_nbits,
krp->krp_param[IXP_PARAM_RES].crp_nbits);

if (krp->krp_op != CRK_MOD_EXP) {
    krp->krp_status = EOPNOTSUPP;
goto err;
}

q = (struct ixp_pkq *) kmalloc(sizeof(*q), GFP_KERNEL);
if (q == NULL) {
    krp->krp_status = ENOMEM;
goto err;
}

/*
 * The PKE engine does not appear to zero the output buffer
 * appropriately, so we need to do it all here.
 */
memset(q, 0, sizeof(*q));

q->pkq_krp = krp;
INIT_LIST_HEAD(&q->pkq_list);

if (ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_BASE], &q->pkq_op.modExpOpr.M,
q->pkq_ibuf0))
    rc = 1;
if (!rc && ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_EXP],
&q->pkq_op.modExpOpr.e, q->pkq_ibuf1))
    rc = 2;
if (!rc && ixp_copy_ibuf(&krp->krp_param[IXP_PARAM_MOD],
&q->pkq_op.modExpOpr.N, q->pkq_ibuf2))
    rc = 3;

if (rc) {
    kfree(q);
    krp->krp_status = ERANGE;
goto err;
}

q->pkq_result.pData     = q->pkq_obuf;
q->pkq_result.dataLen   =
(krp->krp_param[IXP_PARAM_RES].crp_nbits + 31) / 32;

spin_lock_irqsave(&ixp_pkq_lock, flags);
list_add_tail(&q->pkq_list, &ixp_pkq);
spin_unlock_irqrestore(&ixp_pkq_lock, flags);
if (!ixp_pk_cur)
ixp_kperform_cb(0, NULL, 0, 0);
return (0);

err:
crypto_kdone(krp);
return (0);
}

#ifdef CONFIG_OCF_RANDOMHARVEST
/*
 * We run the random number generator output through SHA so that it
 * is FIPS compliant.
 */

static volatile int sha_done = 0;
static unsigned char sha_digest[20];

static void
ixp_hash_cb(UINT8 *digest, IxCryptoAccStatus status)
{
dprintf("%s(%p, %d)\n", __FUNCTION__, digest, status);
if (sha_digest != digest)
printf("digest error\n");
if (IX_CRYPTO_ACC_STATUS_SUCCESS == status)
sha_done = 1;
else
sha_done = -status;
}

static int
ixp_read_random(void *arg, u_int32_t *buf, int maxwords)
{
IxCryptoAccStatus status;
int i, n, rc;

dprintf("%s(%p, %d)\n", __FUNCTION__, buf, maxwords);
memset(buf, 0, maxwords * sizeof(*buf));
status = ixCryptoAccPkePseudoRandomNumberGet(maxwords, buf);
if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
dprintf("%s: ixCryptoAccPkePseudoRandomNumberGet failed %d\n", __FUNCTION__, status);
return 0;
}

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3230
n = sizeof(sha_digest); /* process digest bytes at a time */

rc = 0;
for (i = 0; i < maxwords; i += n / sizeof(*buf)) {
    if ((maxwords - i) * sizeof(*buf) < n)
        n = (maxwords - i) * sizeof(*buf);
    sha_done = 0;
    status = ixCryptoAccPkeHashPerform(IX_CRYPTO_ACC_AUTH_SHA1,
        (UINT8 *) &buf[i], n, ixp_hash_cb, sha_digest);
    if (status != IX_CRYPTO_ACC_STATUS_SUCCESS) {
        dprintk("ixCryptoAccPkeHashPerform failed %d
", status);
        return -EIO;
    }
    while (!sha_done)
        schedule();
    if (sha_done < 0) {
        dprintk("ixCryptoAccPkeHashPerform failed CB %d
", -sha_done);
        return 0;
    }
    memcpy(&buf[i], sha_digest, n);
    rc += n / sizeof(*buf);
}
return rc;
}
#endif /* CONFIG_OCF_RANDOMHARVEST */

#endif /* __ixp46X */

/*
 * our driver startup and shutdown routines
 */
static int
ixp_init(void)
{
    dprintk("%s(%p): __FUNCTION__: ixp_init
", __FUNCTION__);
    if (ixp_init_crypto && ixCryptoAccInit() != IX_CRYPTO_ACC_STATUS_SUCCESS)
        printk("ixCryptoAccInit failed, assuming already initialised\n");
    qcache = kmem_cache_create("ixp4xx_q", sizeof(struct ixp_q), 0,
SLAB_HWCACHE_ALIGN, NULL
#if LINUX_VERSION_CODE < KERNEL_VERSION(2,6,23)
 , NULL
#endif
);
if (!qcache) {
printk("failed to create Qcache\n");
return -ENOENT;
}
memset(&ixpdev, 0, sizeof(ixpdev));
sofic_device_init(&ixpdev, "ixp4xx", 0, ixp_methods);

ixp_id = crypto_get_driverid(sofic_get_device(&ixpdev),
CRYPTOCAPIF_HARDWARE);
if (ixp_id < 0)
panic("IXP/OCF crypto device cannot initialize!");

#define REGISTER(alg)\
crypto_register(ixp_id,alg,0,0)

REGISTER(CRYPTO_DES_CBC);
REGISTER(CRYPTO_3DES_CBC);
REGISTER(CRYPTO_RIJNDAEL128_CBC);
#ifdef CONFIG_OCF_I XPXX_SHA1_MD5
REGISTER(CRYPTO_MD5);
REGISTER(CRYPTO_SHA1);
#endif
REGISTER(CRYPTO_MD5_HMAC);
REGISTER(CRYPTO_SHA1_HMAC);
#undef REGISTER

#ifdef __ixp46X
spin_lock_init(&ixp_pkq_lock);
/*
 * we do not enable the go fast options here as they can potentially
 * allow timing based attacks
 *
 * http://www.openssl.org/news/secadv_20030219.txt
 */
ixCryptoAccPkeEauExpConfig(0, 0);
crypto_kregister(ixp_id, CRK_MOD_EXP, 0);
#ifdef CONFIG_OCF_RANDOMHARVEST
crypto_rregister(ixp_id, ixp_read_random, NULL);
#endif
#endif

return 0;
static void
ixp_exit(void)
{
dprintf("%s\n", __FUNCTION__);  
crypto_unregister_all(ixp_id);
ixp_id = -1;
kmem_cache_destroy(qcache);
qcache = NULL;
}

module_init(ixp_init);
module_exit(ixp_exit);

MODULE_LICENSE("Dual BSD/GPL");
MODULE_AUTHOR("David McCullough <dmccullough@cyberguard.com>");
MODULE_DESCRIPTION("ixp (OCF module for IXP4xx crypto)");
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/*$KAME: md5.c,v 1.5 2000/11/08 06:13:08 itojun Exp $*/
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*
*/

/*
 * Register definitions for 5601 BlueSteel Networks Ubiquitous Broadband
 * Security "uBSec" chip. Definitions from revision 2.8 of the product
 * datasheet.
 */

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3237
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Motorolla 68020 20mhz, NetBSD

SSHay 0.9.0t 29-May-1998
built on Fri Jun 5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.

<table>
<thead>
<tr>
<th></th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>md2</td>
<td>2176.00</td>
<td>5994.67</td>
<td>8079.73</td>
<td>8845.18</td>
<td>9077.01</td>
</tr>
<tr>
<td>mdc2</td>
<td>5730.67</td>
<td>6122.67</td>
<td>6167.66</td>
<td>6176.51</td>
<td>6174.87</td>
</tr>
<tr>
<td>md5</td>
<td>29.10k</td>
<td>127.31k</td>
<td>209.66k</td>
<td>250.50k</td>
<td>263.99k</td>
</tr>
<tr>
<td>hmac(md5)</td>
<td>12.33k</td>
<td>73.02k</td>
<td>160.17k</td>
<td>228.04k</td>
<td>261.15k</td>
</tr>
<tr>
<td>sha1</td>
<td>11.27k</td>
<td>49.37k</td>
<td>84.31k</td>
<td>102.40k</td>
<td>109.23k</td>
</tr>
<tr>
<td>rmd160</td>
<td>11.69k</td>
<td>48.62k</td>
<td>78.76k</td>
<td>93.15k</td>
<td>98.41k</td>
</tr>
<tr>
<td>rc4</td>
<td>117.96k</td>
<td>148.94k</td>
<td>152.57k</td>
<td>153.09k</td>
<td>152.92k</td>
</tr>
<tr>
<td>des cbc</td>
<td>27.13k</td>
<td>30.06k</td>
<td>30.38k</td>
<td>30.38k</td>
<td>30.53k</td>
</tr>
</tbody>
</table>
SSEay 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idx,int) des(ptrrisc1,16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall
The 'numbers' are in 1000s of bytes per second processed.
type 8 bytes 64 bytes 256 bytes 1024 bytes 8192 bytes
md2 130.99k 367.68k 499.09k 547.04k 566.50k
md5 1924.98k 8293.50k 13464.41k 16010.39k 16820.68k
sha 1250.75k 5330.43k 8636.88k 10227.36k 10779.14k
sha1 1071.55k 4572.50k 7459.98k 8791.96k 9341.61k
rc4 10724.22k 14546.25k 15240.18k 15259.50k 15265.63k
des cbc 3309.11k 3883.01k 3968.25k 3971.86k 3979.14k
des ede3 1442.98k 1548.33k 1562.48k 1562.00k 1563.33k
idea cbc 2195.69k 2506.39k 2529.59k 2545.66k 2546.54k
rc2 cbc 806.00k 833.52k 837.58k 838.52k 836.69k
blowfish cbc 4687.34k 5949.97k 6182.43k 6248.11k 6226.09k
rsa 512 bits 0.010s
rsa 1024 bits 0.045s
rsa 2048 bits 0.260s
rsa 4096 bits 1.690s

1.226 openssl 1.0.1e :51.el7_2.2
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1.228 ossp-uuid 1.6.2 :r1
```

```
1.229 p11-kit 0.20.7 :3.el7
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/*

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Standard termination codes:
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/*
 * passprompt.c - pppd plugin to invoke an external PAP password prompter
 *
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 */
/*
 * Unix SMB/CIFS implementation.

trivial database library

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/* pppoatm.c - pppd plugin to implement PPPoATM protocol. */

* Copyright 2000 Mitchell Blank Jr.
* Based in part on work from Jens Axboe and Paul Mackerras.
* Updated to ppp-2.4.1 by Bernhard Kaindl
*
* Updated to ppp-2.4.2 by David Woodhouse 2004.
* - disconnect method added
* - remove_options() abuse removed.
*
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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
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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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"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 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, 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.

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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.

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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.

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.

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1.246 procps 3.2.8 :r12
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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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### 1.251 pygpgme 0.3 :9.el7

#### 1.251.1 Available under license:
From RPM File Metadata:LGPLv2+

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### 1.252 pyliblzma 0.5.3 :11.el7

#### 1.252.1 Available under license:

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Version 3, 29 June 2007

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1.253 python 2.7.5 :16.el7
1.253.1 Available under license :

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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.

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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1.254 python 2.7.2 :r5.19
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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.

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1.255 python-argparse 1.2.1 :r1
1.255.1 Available under license :
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History
-------

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.

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 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.

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This table summarizes the various releases of Python.
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1.256 python-async 0.6.1 :r0

1.256.1 Available under license:

Metadata-Version: 1.0
Name: async
Version: 0.6.1
Summary: Async Framework
Home-page: http://gitorious.org/git-python/async
Author: Sebastian Thiel
Author-email: byronimo@gmail.com
License: BSD License
Description: Async is a framework to process interdependent tasks in a pool of workers
Platform: UNKNOWN
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1.257 python-contextlib2 0.4.0 :r0
1.257.1 Available under license :

A. HISTORY OF THE SOFTWARE
==============================

contextlib2 is a derivative of the contextlib module distributed by the PSF
as part of the Python standard library. According, it is itself redistributed
under the PSF license (reproduced in full below). As the contextlib module
was added only in Python 2.5, the licenses for earlier Python versions are
not applicable and have not been included.

Python was created in the early 1990s by Guido van Rossum at Stichting
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1.258 python-iniparse 0.3.2 :r0

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1.260 python-ipaddress 1.0 :r0

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1.261 python-nsenter 0.1.6 :r0

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1.262 python-pathlib 1.0.1 :r0

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1.263 python-pexpect 2.3 :ml3

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1.264 python-pip 1.3.1 :r0

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1.265 python-pip 1.5.6 :r0
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1.266 python-pycurl 7.19.0 :17.el7

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1.267 python-pycurl 7.19.0 :r2

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1.272 python-urlgrabber 3.10 :6.el7

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1.273 python-urlgrabber 3.9.1 :r1

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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 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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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.

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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.

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 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.

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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.

<one line to give the library's name and a brief idea of what it does.>  
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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:

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That's all there is to it!

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netstd was created by Peter Tobias tobias@et-inf.fho-emden.de on Wed, 20 Jul 1994 17:23:21 +0200.

It was downloaded from ftp://ftp.uk.linux.org/pub/linux/Networking/netkit/.

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1.284 rsyslog 7.4.7 :7.el7_0

1.284.1 Available under license:

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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.
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.

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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.

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You may convey a work based on the Program, or the modifications to
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a) The work must carry prominent notices stating that you modified
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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.

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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:

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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
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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.

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.

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============= Test 1.1:101 =============

Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14

============= Test 1.2:102 =============
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
Test 1.3:103

Test 1.4:104
Second type

Test 1.4.1:105

Test 1.5:106
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</tr>
<tr>
<td>s1_l1_14</td>
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</tr>
</tbody>
</table>

=============
Test 1.6:107
============
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</tr>
</thead>
<tbody>
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<td>s1_l1_2</td>
</tr>
<tr>
<td>s1_l1_3</td>
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</tr>
<tr>
<td>s1_l1_4</td>
<td>s1_l1_4</td>
</tr>
<tr>
<td>s1_l1_5</td>
<td>s1_l1_5</td>
</tr>
<tr>
<td>s1_l1_6</td>
<td>s1_l1_6</td>
</tr>
<tr>
<td>s1_l1_7</td>
<td>s1_l1_7</td>
</tr>
<tr>
<td>s1_l1_8</td>
<td>s1_l1_8</td>
</tr>
<tr>
<td>s1_l1_9</td>
<td>s1_l1_9</td>
</tr>
<tr>
<td>s1_l1_10</td>
<td>s1_l1_10</td>
</tr>
<tr>
<td>s1_l1_11</td>
<td>s1_l1_11</td>
</tr>
<tr>
<td>s1_l1_12</td>
<td>s1_l1_12</td>
</tr>
<tr>
<td>s1_l1_13</td>
<td>s1_l1_13</td>
</tr>
<tr>
<td>s1_l1_14</td>
<td>s1_l1_14</td>
</tr>
</tbody>
</table>

=============
Test 1.7:108
============
<table>
<thead>
<tr>
<th>e1_l1_1</th>
<th>e1_l1_1</th>
</tr>
</thead>
</table>
3871

============

Test 1.8:109

============

el_11_2
el_11_2
el_11_3
el_11_3
el_11_4
el_11_4
el_11_5
el_11_5
el_11_6
el_11_6
el_11_7
el_11_7
el_11_8
el_11_8
el_11_9
el_11_9
e1_11_10
e1_11_10
e1_11_11
e1_11_11
e1_11_12
e1_11_12
e1_11_13
e1_11_13
e1_11_14
e1_11_14

Open Source Used In Cisco Nexus 9000 Series 7.0(3)I4(6)
3871
Test 1.9:110

Test 1.10:111
Test 1.11:112

-------------
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

-------------
Test 1.12:113

-------------
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

-------------
Test 1.13:114

-------------
e1_l1_1
e2_e1_l1_1
e2_e1_l1_1
e1_l1_2
e2_e1_l1_2
e2_e1_l1_2
e1_l1_3
e2_e1_l1_3
e2_e1_l1_3
e1_l1_4
Test 1.14:115
s1_l1_5
s2_s1_l1_5
s2_s1_l1_5
s1_l1_6
s2_s1_l1_6
s2_s1_l1_6
s1_l1_7
s2_s1_l1_7
s2_s1_l1_7
s1_l1_8
s2_s1_l1_8
s2_s1_l1_8
s1_l1_9
s2_s1_l1_9
s2_s1_l1_9
s1_l1_10
s2_s1_l1_10
s2_s1_l1_10
s1_l1_11
s2_s1_l1_11
s2_s1_l1_11
s1_l1_12
s2_s1_l1_12
s2_s1_l1_12
s1_l1_13
s2_s1_l1_13
s2_s1_l1_13
s1_l1_14
s2_s1_l1_14
s2_s1_l1_14

=============
Test 1.15:116
==============
e1_l1_1
s1_e1_l1_1
s1_e1_l1_1
e1_l1_2
s1_e1_l1_2
s1_e1_l1_2
e1_l1_3
s1_e1_l1_3
s1_e1_l1_3
e1_l1_4
s1_e1_l1_4
s1_e1_l1_4
e1_l1_5
s1_e1_l1_5
sl_e1_l1_5
e1_l1_6
sl_e1_l1_6
sl_e1_l1_6
e1_l1_7
sl_e1_l1_7
sl_e1_l1_7
e1_l1_8
sl_e1_l1_8
sl_e1_l1_8
e1_l1_9
sl_e1_l1_9
sl_e1_l1_9
e1_l1_10
sl_e1_l1_10
sl_e1_l1_10
e1_l1_11
sl_e1_l1_11
sl_e1_l1_11
e1_l1_12
sl_e1_l1_12
sl_e1_l1_12
e1_l1_13
sl_e1_l1_13
sl_e1_l1_13
e1_l1_14
sl_e1_l1_14
sl_e1_l1_14

==============
Test 1.16:117
==============
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
Open Source Used In Cisco Nexus 9000 Series 7.0(3)I4(6)

Test 1.17:118

-------------
11_1
11_1
11_2
11_2
Testing address ranges

Test 2.1:120

11_4
Test 2.2:121
l2_6

Test 2.3:122
11_14

Test 2.4:123
l2_9

Test 2.5:124

Test 2.6:125
l2_9

Test 2.7:126

Test 2.9:127
11_7

Test 2.10:128
11_7

Test 2.11:129
11_7

Test 2.12:130
11_1
| 11_2 |
| 11_3 |
| 11_4 |

=============

Test 2.13:131

=============

| 11_1 |
| 11_2 |
| 11_3 |
| 11_4 |
| 11_5 |
| 11_6 |
| 11_7 |
| 11_8 |
| 11_9 |
| 11_10 |
| 11_11 |
| 11_12 |
| 11_13 |
| 11_14 |
| 12_1 |
| 12_2 |
| 12_3 |
| 12_4 |
| 12_5 |
| 12_6 |
| 12_7 |
| 12_8 |
| 12_9 |

=============

Test 2.14:132

=============

| 11_1 |
| 11_2 |
| 11_3 |
| 11_4 |
| 11_5 |
| 11_6 |
| 11_7 |
| 11_8 |
| 11_9 |
| 11_10 |
| 11_11 |
| 11_12 |
| 11_13 |
| 11_14 |
l2_1
l2_2
l2_3
l2_4
l2_5
l2_6
l2_7
l2_8
l2_9

============
Test 2.15:133
============

l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
l2_1
l2_2
l2_3
l2_4
l2_5
l2_6
l2_7
l2_8
l2_9

============
Test 2.16:134
============

l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
12_1
12_2
12_3
12_4
12_5
12_6

==========
Test 2.17:135
==========
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==========
Test 2.18:136
==========
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==========
Test 2.19:137
==========
11_12

==========
Test 2.20:138
==========
11_7
### Brace and other grouping

---

#### Test 3.1:139
---

- l1_1
- l1_2
- l1_3
- ^l1T4$
- ^l1T5$
- ^l1T6$
- ^l1T7$
- ^l1T8$
- ^l1T9$
- ^l1T10$
- ^l1T11$
- ^l1T12$
- l1_13
- l1_14

---

#### Test 3.2:140
---

- l1_1
- l1_2
- l1_3
- ^l1_4
- ^l1_5
- ^l1_6$
- ^l1_7$
- ^l1T8$
- ^l1_9$
- ^l1_10$
- ^l1_11
- ^l1_12
- l1_13
- l1_14

---

#### Test 3.3:141
---

- ^l1T1$
- ^l1T2$
- ^l1T3$
- l1_4
- l1_5
- l1_6
- l1_7
Testing a c d and i commands

Test 4.1:143

before_i
after_i
before_i
after_i
before_i
after_i
before_i
after_i
before_i
after_i
before_i
after_i
before_i
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after_ibefore_il1_13
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after_ibefore_il1_14
before_il2_1
after_ibefore_il2_1
before_il2_2
after_ibefore_il2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibefore_il2_9

==============
Test 4.2:144
==============
before_al1_1
after_abefore_al1_1
before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-12l1_5
after_abefore_a5-12l1_5
appended
before_a5-12l1_6
after_abefore_a5-12l1_6
appended
before_a5-12l1_7
after_abefore_a5-12l1_7
appended
before_a5-12l1_8
after_abefore_a5-12l1_8
appended
before_a5-12l1_9
after_abefore_a5-12l1_9
appended
before_a5-12l1_10
after_abefore_a5-12l1_10
appended
before_a5-12l1_11
after_abefore_a5-12l1_11
appended
before_a5-12l1_12
after_abefore_a5-12l1_12
appended
before_al1_13
after_abefore_al1_13
before_al1_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

============
Test 4.3:145
============
^l1_1
^l1_1$
appended
^l1_2
^l1_2$
^\|2_8$
^\|2_9
^\|2_9$

============
Test 4.4:146
============
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

============
Test 4.5:147
============
hello

============
Test 4.6:148
============
hello

============
Test 4.7:149
============
hello

============
Test 4.8:150
============
Testing labels and branching

============
Test 5.1:151
============
label2_11_1
label3_label2_11_1
label1_11_2
Test 5.2:152

Test 5.3:153
Test 5.4:154

^l1_1$
^l1_2$
^l1_3$
^l1_4$
^l1_5$
^l1_6$
^l1_7$
^l1_8$
11_9$
11_10$
11_11$
11_12$
11_13$
11_14$

Test 5.5:155

^l1_1$
^l1_2$
^l1_4$
^l1_6$
^l1_8$

Test 5.6:156

11_1
11_2
11_3
11_4
11_5

Test 5.7:157

11_1
11_2
11_3
11_4
hello
11_5
Test 5.8:158
===========
 m1_1
 m1_2
 m1_3
 m1_4
 m1_5
 m1_6
 m1_7
 m1_8
 m1_9
 m1_10
 m1_11
 m1_12
 m1_13
 m1_14
 Pattern space commands

Test 6.1:159
===========
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed
 changed

Test 6.2:160
===========
 l1_1
 l1_2
 l1_3
 l1_5
 l1_6
 l1_7
 l1_8
 l1_9
 l1_10
Test 6.3:161

Test 6.4:162

Test 6.5:163
Test 6.6:164

Testing print and file routines

Test 7.1:165

\001\002\003\004\005\006\007\008\009\010\011\012\013\014\015\016\017\018\019\020\021\022\023\024\025\026\027\028\029\030\031\032\033\034\035\036\037 
\x04\x05\x06\x07\x08\x09\x0a\x0b\x0c\x0d\x0e\x0f\x10\x11\x12\x13\x14\x15\x16\x17\x18\x19\x1a\x1b\x1c\x1d\x1e\x1f\x20\x21\x22\x23\x24\x25\x26\x27\x28\x29\x2a\x2b\x2c\x2d\x2e\x2f\x30\x31\x32\x33\x34\x35\x36\x37\x38\x39\x3a\x3b\x3c\x3d\x3e\x3f\x40\x41\x42\x43\x44\x45\x46\x47\x48\x49\x4a\x4b\x4c\x4d\x4e\x4f\x50\x51\x52\x53\x54\x55\x56\x57\x58\x59\x5a\x5b\x5c\x5d\x5e\x5f\x60\x61\x62\x63\x64\x65\x66\x67\x68\x69\x6a\x6b\x6c\x6d\x6e\x6f\x70\x71\x72\x73\x74\x75\x76\x77\x78\x79\x7a\x7b\x7c\x7d\x7e\x7f

Test 7.2:166

$
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Test 7.4:168

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Test 7.5:169

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Test 7.6:170

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

Test 7.8:171

Testing substitution commands

Test 8.1:172

XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX

Test 8.2:173

XXXX
XXXX
Test 8.3:174

Test 8.4:175

l1_1  l1_2  l1_3  l1_4  l1_5  l1_6  l1_7  l1_8  l1_9  l1_10  l1_11  l1_12  l1_13  l1_14
Test 8.5:176

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

l1X1
l1X2
l1X3
l1X4
l1X5
l1X6
l1X7
l1X8
l1X9
l1X10
l1X11
l1X12
l1X13
l1X14

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

Test 8.6:177

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

(l)(1)(2)(1)
(l)(1)(2)(2)
(l)(1)(2)(3)
(l)(1)(2)(4)
(l)(1)(2)(5)
(l)(1)(2)(6)
(l)(1)(2)(7)
(l)(1)(2)(8)
(l)(1)(2)(9)
(l)(1)(2)(10)
(l)(1)(2)(11)
(l)(1)(2)(12)
(l)(1)(2)(13)
(l)(1)(2)(14)

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

Test 8.7:178

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

(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)

Test 8.8:179

x_x1xl1
x_x1xl2
x_x1xl3
x_x1xl4
x_x1xl5
x_x1xl6
x_x1xl7
x_x1xl8
x_x1xl9
x_x1xl10
x_x1xl11
x_x1xl12
x_x1xl13
x_x1xl14

Test 8.9:180

11u0
u1
u21
11u0
u1
u22
11u0
u1
u23
11u0
u1
u24
11u0
u1
u25
11u0
u1
u26
11u0
u1
u27
11u0
u1
u28
11u0
u1
u29
11u0
u1
u210
11u0
u1
u211
11u0
u1
u212
11u0
u1
u213
11u0
u1
u214

============
Test 8.10:181
============
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X0
11_X1
11_X2
11_X3
11_X4

============
Test 8.11:182
============
IX_1
IX_2
IX_3
IX_4
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

============= Test 8.14:185 =============
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

============= Test 8.15:186 =============
11_1X11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
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Version 3, 29 June 2007

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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.

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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 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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1.307 sysklogd 1.5 :r13

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* 
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.310 sysvinit 2.88 :14.dsf.el7

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Version 2, June 1991

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* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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*******************************************************************************/

/*
* This file contains "define" statements that control agent configuration.
* SERVICE_* definitions control which service implementations are included into the agent.
*/

#ifndef D_config
#define D_config

#include <framework/mdep.h>

#if defined(WIN32)
#define TARGET_WINDOWS 1
#define TARGET_VXWORKS 0
#define TARGET_UNIX 0
#endif
#if defined(_MSC_VER)
define TARGET_MSVC 1
#else
define TARGET_MSVC 0
#endif
#else
#define TARGET_BSD 0
#define TARGET_SYMBIAN 0
#endif

# define TARGET_VXWORKS 0
# define TARGET_UNIX 0
# define TARGET_MSVC 0
# define TARGET_BSD 0
# define TARGET_SYMBIAN 1
#else
# define TARGET_WINDOWS 0
# define TARGET_VXWORKS 0
# define TARGET_UNIX 1
# define TARGET_MSVC 0
# if defined(__FreeBSD__) || defined(__NetBSD__)
# define TARGET_BSD 1
# else
# define TARGET_BSD 0
# endif
# define TARGET_SYMBIAN 0
#endif

#if !defined(SERVICE_Locator)
#define SERVICE_Locator         (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS ||
TARGET_SYMBIAN)
#endif
#if !defined(SERVICE_RunControl)
#define SERVICE_RunControl      (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Breakpoints)
#define SERVICE_Breakpoints     (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Memory)
#define SERVICE_Memory          (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Registers)
#define SERVICE_Registers       (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Processes)
#define SERVICE_Processes       (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_MemoryMap)
#define SERVICE_MemoryMap       (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_StackTrace)
#define SERVICE_StackTrace      (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Symbols)
#define SERVICE_Symbols         (TARGET_UNIX || TARGET_MSVC)
#endif
#if !defined(SERVICE_LineNumbers)
#define SERVICE_LineNumbers     (TARGET_UNIX || TARGET_MSVC)
#endif
#endif
#if !defined(SERVICE_FileSystem)
#define SERVICE_FileSystem (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_SysMonitor)
#define SERVICE_SysMonitor ((TARGET_UNIX && !TARGET_BSD) || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Expressions)
#define SERVICE_Expressions (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS)
#endif
#if !defined(SERVICE_Streams)
#define SERVICE_Streams (TARGET_UNIX || TARGET_VXWORKS || TARGET_WINDOWS || TARGET_SYMBIAN)
#endif
#if !defined(SERVICE_PathMap)
#define SERVICE_PathMap ENABLE_ELF
#endif
#if !defined(SERVICE_Terminals)
#define SERVICE_Terminals TARGET_UNIX
#endif

#if !defined(ENABLE_Plugins)
    #if TARGET_UNIX && defined(PATH_Plugins)
        #define ENABLE_Plugins 1
    #else
        #define ENABLE_Plugins 0
    #endif
#endif

#if !defined(ENABLE_ZeroCopy)
#define ENABLE_ZeroCopy 1
#endif

#if !defined(ENABLE_Splice)
    # if ENABLE_ZeroCopy
        # include <fcntl.h>
        # if defined(SPLICE_F_MOVE)
            # define ENABLE_Splice 1
        # else
            # define ENABLE_Splice 0
        # endif
    #endif
#endif

#if !defined(ENABLE_Trace)
    #define ENABLE_Trace 1
#endif
#endif

#if !defined(ENABLE_Discovery)
# define ENABLE_Discovery 1
#endif

#if !defined(ENABLE_Cmdline)
# define ENABLE_Cmdline 1
#endif

#if !defined(ENABLE_ContextProxy)
# define ENABLE_ContextProxy 0
#endif

#if !defined(ENABLE_DebugContext)
# define ENABLE_DebugContext (ENABLE_ContextProxy || SERVICE_RunControl || SERVICE_Breakpoints || SERVICE_Memory || SERVICE_Registers || SERVICE_StackTrace)
#endif

#if !defined(ENABLE_SymbolsProxy)
# define ENABLE_SymbolsProxy (ENABLE_DebugContext && TARGET_VXWORKS)
#endif

#if !defined(ENABLE_LineNumbersProxy)
# define ENABLE_LineNumbersProxy (ENABLE_DebugContext && TARGET_VXWORKS)
#endif

#if ENABLE_SymbolsProxy || !ENABLE_DebugContext
# undef SERVICE_Symbols
# define SERVICE_Symbols 0
#endif

#if ENABLE_LineNumbersProxy || !ENABLE_DebugContext
# undef SERVICE_LineNumbers
# define SERVICE_LineNumbers 0
#endif

#if !defined(ENABLE_Symbols)
# define ENABLE_Symbols (ENABLE_SymbolsProxy || SERVICE_Symbols)
#endif

#if !defined(ENABLE_LineNumbers)
# define ENABLE_LineNumbers (ENABLE_LineNumbersProxy || SERVICE_LineNumbers)
#endif

#if !defined(ENABLE_ELF)
# define ENABLE_ELF (TARGET_UNIX && (SERVICE_Symbols || SERVICE_LineNumbers))
#endif
#if !defined(ENABLE_SSL)
#  if (TARGET_UNIX) && !defined(__APPLE__)
#    define ENABLE_SSL          1
#  else
#    define ENABLE_SSL          0
#  endif
#endif

#if !defined(ENABLE_RCBP_TEST)
#  if defined(__FreeBSD__) || defined(__NetBSD__) || defined(__APPLE__)
/* TODO: debug services are not fully implemented on BSD */
#    define ENABLE_RCBP_TEST    0
#  else
#    define ENABLE_RCBP_TEST    (!ENABLE_ContextProxy && (SERVICE_RunControl &&
SERVICE_Breakpoints))
#  endif
#endif

#if !defined(ENABLE_AIO)
#  if !defined(__POSIX_ASYNCHRONOUS_IO)
#    define ENABLE_AIO          0
#  elif defined(__FreeBSD__) || defined(__NetBSD__) || defined(__APPLE__)
/* On BSD AIO sends signal SIGSYS - bad system call */
#    define ENABLE_AIO          0
#  elif defined(__linux__)
/* Linux implementation of POSIX AIO found to be inefficient */
#    define ENABLE_AIO          0
#  elif TARGET_SYMBIAN
/* Symbian impl (OpenC) not desired either */
#    define ENABLE_AIO          0
#  else
#    define ENABLE_AIO          1
#  endif
#endif

#if !defined(ENABLE_STREAM_MACROS)
/* Enabling stream macros increases code size about 5%, and increases speed about 7% */
#  define ENABLE_STREAM_MACROS  0
#endif

#if !defined(ENABLE_LUA)
#  if defined(PATH_LUA)
#    define ENABLE_LUA          1
#  else
#    define ENABLE_LUA          0
#  endif
#endif
/* Using UNIX:/path/to/socket for local TCP communication */
#define ENABLE_Unix_Domain (TARGET_UNIX || TARGET_SYMBIAN)
#endif

#if !defined(ENABLE_ContextStateProperties)
#define ENABLE_ContextStateProperties 0
#endif

#endif /* D_config */

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1.315 tcl 8.5.11 :r11
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4180

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TinyLogin is a curious blend of code from a whole bunch of folks.
It was originally cobbled together by Sean Bastille <hightide@ginch.org>
based in part on the May of 1998 version of the shadow utilities, which

The build system, and the way in which TinyLogin invokes its component applications has been totally rewritten, based on the build system used for BusyBox. The code has also been majorly reworked to make it more internally consistent, to make it use fewer global variables, etc, by Erik Andersen.

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1.330 udev-extraconf 0.0 :r3

1.331 unzip 6.0 :r4
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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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* 
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* 
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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4314
sed 's/^.*\.img/__ts_dev__/g;  
s/^[:blank:]*Device Boot/Device Boot/g' >> $TS_OUTPUT 2>&1

echo -ne "-------------------\n\n" >> $TS_OUTPUT
}

function print_bsd_layout {
    echo -ne "---layout----------" >> $TS_OUTPUT
    echo -e "${FDISK_CMD_BSD_LIST}" | $TS_CMD_FDISK ${TEST_IMAGE_NAME} | 
    sed 's/Reading .*/g;
          s/Welcome to fdisk .*/" >> $TS_OUTPUT 2>&1
    echo -ne "-------------------\n\n" >> $TS_OUTPUT
}

ts_log "Initialize empty image"
TEST_IMAGE_NAME=$(ts_image_init 10)
ts_image_md5sum >> $TS_OUTPUT 2>&1

ts_log "Create new DOS partition table"
echo -e "${FDISK_CMD_CREATE_DOSLABEL}${FDISK_CMD_SETID}${FDISK_CMD_WRITE_CLOSE}" | 
    $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create 1st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY1}${FDISK_CMD_WRITE_CLOSE}" | 
    $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create 2st primary partition"
echo -e "${FDISK_CMD_CREATE_PRIMARY2}${FDISK_CMD_WRITE_CLOSE}" | 
    $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Set 2nd partition type"
echo -e "${FDISK_CMD_CHANGE_PART2TYPE}${FDISK_CMD_WRITE_CLOSE}" | 
    $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_layout

ts_log "Create default BSD"
echo -e "${FDISK_CMD_BSD_CREATE}${FDISK_CMD_WRITE_CLOSE}" | 
    $TS_CMD_FDISK ${TEST_IMAGE_NAME} &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1
print_bsd_layout

echo -e "${FDISK_CMD_BSD_CREATE_PART}${FDISK_CMD_WRITE_CLOSE}" | \ 
$TS_CMD_FDISK $'${TEST_IMAGE_NAME}' &> /dev/null

echo -e "${FDISK_CMD_BSD_PARTTYPE}${FDISK_CMD_WRITE_CLOSE}" | \ 
$TS_CMD_FDISK $'${TEST_IMAGE_NAME}' &> /dev/null
ts_image_md5sum >> $TS_OUTPUT 2>&1

print_bsd_layout

echo -e "${FDISK_CMD_BSD_LIST_TYPES}" | \ 
$TS_CMD_FDISK $'${TEST_IMAGE_NAME}' | \ 
sed 's/Reading .*//g; s/Welcome to fdisk .*//' >> $TS_OUTPUT 2>&1

ts_finalize
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1.337 v86d 0.1.10 :r1
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v86d -- A x86 Emulation Daemon

1. Purpose
----------

v86d provides a backend for kernel drivers that need to execute x86 BIOS code. The code is executed in a controlled environment and the results are passed back to the kernel via the netlink interface.

2. Supported architectures
-------------------------

This version of v86d supports the following architectures:

x86, x86-64 (amd64).

3. Configuration
----------------

3.1. The C library
--------------------

v86d can be compiled against two different C libraries: glibc and klibc, glibc being the default.

Compiling against glibc will result in a dynamically linked executable that is not suitable for inclusion in initrds.

Compiling against klibc will result in a relatively small, statically linked binary, which can be included in an initrd.

To compile v86d against klibc, run ./configure --with-klibc after making sure that a recent (1.4 or newer) version of klibc is installed on your system.

3.2. The emulator backend
------------------------

On x86, the code executed by v86d can be run either in a fully software-emulated environment (x86emu) or a virtualized environment (vm86) supported by the CPU. On other arches or 64-bit systems, the code is always run by x86emu.

To choose the x86emu backend on an x86 system, run ./configure
4. Installation & Usage

To configure, build and install v86d with the default settings, run:

```
# ./configure --default
# make
# make install
```

If the kernel that you're currently running doesn't provide uvesafb, you can use the KDIR variable to point make to a different kernel tree (e.g. 'make KDIR=/usr/src/linux').

v86d isn't meant to be used in an interactive way. It should be started and called by the kernel. If you want to see it in action, build and load the uvesafb kernel module.

If you want to include v86d into an initramfs image, misc/initramfs provides a minimal config file parsable by gen_init_cpio.

5. Licensing

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--
Michal Januszewski <spock@gentoo.org>

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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 an idea of what it does.

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

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year 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.
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 is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.338 vim 7.4.160 :1.el7
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*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*

SUMMARY

*iccf* *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they
will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre	*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than
5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
vim:tw=78:ts=8:ft=help:nol:
/
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1.339 vim 7.3.429
1.339.1 Available under license :
   *uganda.txt*    For Vim version 7.3. Last change: 2010 Aug 07

   VIM REFERENCE MANUAL    by Bram Moolenaar

   *uganda* *Uganda* *copying* *copyright* *license*
   SUMMARY
   *iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
encouraged to make a donation for needy children in Uganda. Please see [kcc]
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
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that they must include this license text. You can also distribute
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include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
text under a) you are allowed to further distribute it
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
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      the distribution how to contact you. When the maintainer asks you
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      must make your changes, including source code, available to the
      maintainer without fee. The maintainer reserves the right to
      include your changes in the official version of Vim. What the
      maintainer will do with your changes and under what license they
      will be distributed is negotiable. If there has been no negotiation
      then this license, or a later version, also applies to your changes.
      The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
      changes it will be announced in appropriate places (most likely
      vim.sf.net, www.vim.org and/or comp.editors). When it is completely
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---
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==============================================================================

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*donate*

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Canada
Phone: 604-581-5353
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Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

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1.342 which 2.20 :r3

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Version 3, 29 June 2007

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1.343 which 2.20

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