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In your requests please include the following reference number 78EE117C99-2304084769

Contents

1.1 openssl 1.1.1k
- 1.1.1 Notifications
- 1.1.2 Available under license

1.2 mpdecimal 2.5.1
- 1.2.1 Notifications
- 1.2.2 Available under license

1.3 expat 2.6.3
- 1.3.1 Available under license

1.4 python 3.11.10
- 1.4.1 Available under license

1.5 yara 4.0.5
- 1.5.1 Available under license

1.6 libutf8proc2 2.5.0-1
- 1.6.1 Available under license

1.7 libxcbshm 1.14-3
- 1.7.1 Available under license

1.8 distro 1.8.0
- 1.8.1 Available under license

1.9 tk 8.6.11-2
- 1.9.1 Available under license

1.10 imagemagick-6-common 6.9.11.60+dfsg-1.3+deb11u4
- 1.10.1 Available under license

1.11 gir 1.66.1-1+b1
- 1.11.1 Available under license

1.12 libglibdata 2.66.8-1+deb11u5
- 1.12.1 Available under license

1.13 msgpack 1.0.8
1.13.1 Available under license
1.14 typeguard 4.3.0
1.14.1 Available under license
1.15 pcre 8.39-13
1.15.1 Available under license
1.16 m4 1.4.18-5
1.16.1 Available under license
1.17 importlib_resources 6.4.0
1.17.1 Available under license
1.18 python-setuptools 75.3.0
1.18.1 Available under license
1.19 kerberos 1.18.3-6+deb11u5
1.19.1 Available under license
1.20 openjpeg 2.4.0-3
1.20.1 Available under license
1.21 curl 7.74.0-1.3+deb11u14
1.21.1 Available under license
1.22 apr-util 1.6.1-5+deb11u1
1.22.1 Available under license
1.23 attr 2.4.48-6
1.23.1 Available under license
1.24 libkrb 1.18.3-6+deb11u5
1.24.1 Available under license
1.25 libcom-err 1.46.2-2+deb11u1
1.25.1 Available under license
1.26 passwd 4.8.1-1
1.26.1 Available under license
1.27 findutils 4.8.0-1
1.27.1 Available under license
1.28 libncursesw5-dev 6.2+20201114-2+deb11u2
1.28.1 Available under license
1.29 libdjvulibre-dev 3.5.28-2
1.29.1 Available under license
1.30 libstdc++-10-dev 10.2.1-6
1.30.1 Available under license
1.31 python-requests 2.32.3
1.31.1 Available under license
1.32 jaraco-context 5.3.0

1.32.1 Available under license
1.33 colorama 0.4.6
1.33.1 Available under license
1.34 libxt-dev 1.2.0-1
1.34.1 Available under license
1.35 tzdata 2024b-0+deb11u1
1.35.1 Available under license
1.36 platformdirs 3.8.1
1.36.1 Available under license
1.37 libnsl 2.31
1.37.1 Available under license
1.38 libmd0 1.0.3-3
1.38.1 Available under license
1.39 libmount-dev 2.36.1-8+deb11u2
1.39.1 Available under license
1.40 libpixmandev 0.40.0-1.1~deb11u1
1.40.1 Available under license
1.41 libfontconfig 2.13.1-4.2
1.41.1 Available under license
1.42 libisl23 0.23-1
1.42.1 Available under license
1.43 libpsl 0.21.0-1.2
1.43.1 Available under license
1.44 libjbig 2.1-3.1+b2
1.44.1 Available under license
1.45 tk-dev 8.6.11+1
1.45.1 Available under license
1.46 x11-common 7.7+22
1.46.1 Available under license
1.47 libcrypt-dev 4.4.18-4
1.47.1 Available under license
1.48 iconv 2.31
1.48.1 Available under license
1.49 base-passwd 3.5.51
1.49.1 Available under license
1.50 libserf-1-1 1.3.9-10
1.50.1 Available under license
1.51 harfbuzz 2.7.4-1
1.51.1 Available under license

1.52 sed 4.7-1
1.52.1 Available under license
1.53 cdebconf 0.260
1.53.1 Available under license
1.54 autoconf 2.69-14
1.54.1 Available under license
1.55 libcbor0 0.5.0+dfsg-2
1.55.1 Available under license
1.56 libpng 1.6.37-3
1.56.1 Available under license
1.57 libseccomp 2.5.1-1+deb11u1
1.57.1 Available under license
1.58 libmagickcore-6-q16-dev 6.9.11.60+dfsg-1.3+deb11u4
1.58.1 Available under license
1.59 image-magick 6.9.11.60+dfsg-1.3+deb11u4
1.59.1 Available under license
1.60 lsb 11.1.0
1.60.1 Available under license
1.61 zlib1g-dev 1.2.11.dfsg-2+deb11u2
1.61.1 Available under license
1.62 libselinux1-dev 3.1-3
1.62.1 Available under license
1.63 media-types 4.0.0
1.63.1 Available under license
1.64 libassuan 2.5.3-7.1
1.64.1 Available under license
1.65 systemd 247.3-7+deb11u6
1.65.1 Available under license
1.66 zstd 1.4.8+dfsg-2.1
1.66.1 Available under license
1.67 glibc 2.31-13+deb11u11
1.67.1 Available under license
1.68 netbase 6.3
1.68.1 Available under license
1.69 linux-libc-dev 5.10.226-1
1.69.1 Available under license
1.70 libgcrypt 1.8.7-6
1.70.1 Available under license
1.71 liblcms 2.12~rc1-2

1.71.1 Available under license
1.72 liblqrdev 0.4.2-2.1
1.72.1 Available under license
1.73 libxcb-render 1.14-3
1.73.1 Available under license
1.74 libtiff-dev 4.2.0-1+deb11u5
1.74.1 Available under license
1.75 libice 1.0.10-1
1.75.1 Available under license
1.76 mysql-defaults 1.0.7
1.76.1 Available under license
1.77 libperl5.32 5.32.1-4+deb11u4
1.77.1 Available under license
1.78 xorg 7.7+22
1.78.1 Available under license
1.79 libpango 1.46.2-3
1.79.1 Available under license
1.80 liblqr 0.4.2-2.1
1.80.1 Available under license
1.81 libevent-core-2.1-7 2.1.12-stable-1
1.81.1 Available under license
1.82 aom 1.0.0.errata1-3+deb11u2
1.82.1 Available under license
1.83 free-type 2.10.4+dfsg-1+deb11u1
1.83.1 Available under license
1.84 perl-base 5.32.1-4+deb11u4
1.84.1 Available under license
1.85 default-libmysqlclient-dev 1.0.7
1.85.1 Available under license
1.86 libkrbsupport 1.18.3-6+deb11u5
1.86.1 Available under license
1.87 python-pip 24.0
1.87.1 Available under license
1.88 libmpfr6 4.1.0-3
1.88.1 Available under license
1.89 grep 3.6-1+deb11u1
1.89.1 Available under license
1.90 libxss-dev 1.2.3-1
1.90.1 Available under license

1.91 x11proto-scrnsaver-dev 2020.1-1
1.91.1 Available under license
1.92 ilmbase 2.5.4-1
1.92.1 Notifications
1.92.2 Available under license
1.93 x11proto-xext-dev 2020.1-1
1.93.1 Available under license
1.94 fftw3 3.3.8-2
1.94.1 Available under license
1.95 libicu-dev 67.1-7
1.95.1 Available under license
1.96 libpwquality-common 1.4.4-1
1.96.1 Available under license
1.97 x11proto-dev 2020.1-1
1.97.1 Available under license
1.98 libss 1.46.2-2+deb11u1
1.98.1 Available under license
1.99 e2fsprogs 2.1-1.46.2-2+deb11u1
1.99.1 Available under license
1.100 libxext-dev 1.3.3-1.1
1.100.1 Available under license
1.101 libapr-util1 1.6.1-5+deb11u1
1.101.1 Available under license
1.102 libtk 8.6.11-2
1.102.1 Available under license
1.103 libpixman 0.40.0-1.1~deb11u1
1.103.1 Available under license
1.104 openssh 8.4p1-5+deb11u3
1.104.1 Notifications
1.104.2 Available under license
1.105 libsystemd 247.3-7+deb11u6
1.105.1 Available under license
1.106 libxcb1-dev 1.14-3
1.106.1 Available under license
1.107 xz 5.2.5-2.1~deb11u1
1.107.1 Available under license
1.108 libdb-dev 5.3.1+nmu1
1.108.1 Available under license
1.109 gnutls 3.7.1-5+deb11u6

1.109.1 Available under license
1.110 x265 3.4-2
1.110.1 Available under license
1.111 libuuid 2.36.1-8+deb11u2
1.111.1 Available under license
1.112 automake 1.16.3-2
1.112.1 Available under license
1.113 platformdirs 4.2.2
1.113.1 Available under license
1.114 sysvinit-utils 2.96-7+deb11u1
1.114.1 Available under license
1.115 zlib1g 1.2.11.dfsg-2+deb11u2
1.115.1 Available under license
1.116 libgdbm-dev 1.19-2
1.116.1 Available under license
1.117 python-setuptools 65.5.0
1.117.1 Available under license
1.118 dpkg-dev 1.20.13
1.118.1 Available under license
1.119 libmagickwand-6.q16-6 6.9.11.60+dfsg-1.3+deb11u4
1.119.1 Available under license
1.120 gpgv 2.2.27-2+deb11u2
1.120.1 Available under license
1.121 jaraco-collections 5.1.0
1.121.1 Available under license
1.122 libgcc-s1 10.2.1-6
1.122.1 Available under license
1.123 libprocps 3.3.17-5
1.123.1 Available under license
1.124 libpsl5 0.21.0-1.2
1.124.1 Available under license
1.125 libmagickcore-6.q16-6-extra 6.9.11.60+dfsg-1.3+deb11u4
1.125.1 Available under license
1.126 mercurial-common 5.6.1-4
1.126.1 Available under license
1.127 libldap 2.4.57+dfsg-3+deb11u1
1.127.1 Available under license
1.128 libxdmcp 1.1.2-3
1.128.1 Available under license

1.129 libxrender 0.9.10-1
1.129.1 Available under license
1.130 elfutils 0.183-1
1.130.1 Available under license
1.131 librtmp 2.4+20151223.gitfa8646d.1-2+b2
1.131.1 Available under license
1.132 libxt 1.2.0-1
1.132.1 Available under license
1.133 jaraco.text 3.12.1
1.133.1 Available under license
1.134 libhogweed6 3.7.3-1
1.134.1 Available under license
1.135 jaraco-text 3.12.1
1.135.1 Available under license
1.136 readline 8.1-1
1.136.1 Available under license
1.137 libx265-192 3.4-2
1.137.1 Available under license
1.138 libmd 1.0.3-3
1.138.1 Available under license
1.139 lz4 1.9.3-2
1.139.1 Available under license
1.140 libssh2 1.9.0-2+deb11u1
1.140.1 Available under license
1.141 uuid-dev 2.36.1-8+deb11u2
1.141.1 Available under license
1.142 libedit 3.1-20191231-2+b1
1.142.1 Available under license
1.143 zipp 3.19.2
1.143.1 Available under license
1.144 autotools-dev 20180224.1+nmu1
1.144.1 Available under license
1.145 backports.tarfile 1.2.0
1.145.1 Available under license
1.146 mawk 1.3.4.20200120-2
1.146.1 Available under license
1.147 xxhash 0.8.0-2
1.147.1 Available under license
1.148 chardet 5.1.0

1.148.1 Available under license
1.149 python-pip 24.3.1
1.149.1 Available under license
1.150 gpg-agent 2.2.27-2+deb11u2
1.150.1 Available under license
1.151 tar 1.34+dfsg-1+deb11u1
1.151.1 Available under license
1.152 scowl 2019.10.06-1
1.152.1 Available under license
1.153 sysv-init 2.96-7+deb11u1
1.153.1 Available under license
1.154 apt 2.2.4
1.154.1 Available under license
1.155 libwebp6 0.6.1-2.1+deb11u2
1.155.1 Available under license
1.156 libfontconfig1-dev 2.13.1-4.2
1.156.1 Available under license
1.157 mercurial 5.6.1-4
1.157.1 Available under license
1.158 file 5.39-3+deb11u1
1.158.1 Available under license
1.159 logsave 1.46.2-2+deb11u1
1.159.1 Available under license
1.160 libltdl-dev 2.4.6-15
1.160.1 Available under license
1.161 sqlite 3.34.1-3+deb11u1
1.161.1 Available under license
1.162 gdbm 1.19-2
1.162.1 Available under license
1.163 libgdkpixbufcommon 2.42.2+dfsg-1+deb11u2
1.163.1 Available under license
1.164 lcms 2.12~rc1-2
1.164.1 Available under license
1.165 libbrotli1 1.0.9-2+b2
1.165.1 Available under license
1.166 rich 13.4.2
1.166.1 Available under license
1.167 libxext 1.3.3-1.1
1.167.1 Available under license

1.168 libevent-2.1-7 2.1.12-stable-1
1.168.1 Available under license
1.169 libreadline-dev 8.1-1
1.169.1 Available under license
1.170 bash 5.1-2+deb11u1
1.170.1 Available under license
1.171 ucf 3.0043
1.171.1 Available under license
1.172 fonts-dejavu 2.37-2
1.172.1 Available under license
1.173 jbig-kit 2.1-3.1+b2
1.173.1 Available under license
1.174 pyparsing 3.0.9
1.174.1 Available under license
1.175 libaom0 1.0.0.errata1-3+deb11u2
1.175.1 Available under license
1.176 wheel 0.45.1
1.176.1 Available under license
1.177 pq 13.18-0+deb11u1
1.177.1 Available under license
1.178 my-test-package 1.0
1.178.1 Available under license
1.179 librsvg 2.50.3+dfsg-1+deb11u1
1.179.1 Available under license
1.180 mpclib 1.2.0-1
1.180.1 Available under license
1.181 libde 1.0.11-0+deb11u3
1.181.1 Available under license
1.182 jaraco.collections 5.1.0
1.182.1 Available under license
1.183 libcbor 0.5.0+dfsg-2
1.183.1 Available under license
1.184 freedesktop 1.66.1-1+b1
1.184.1 Available under license
1.185 openssl 1.1.1w-0+deb11u2
1.185.1 Available under license
1.186 libfido2-1 1.6.0-2
1.186.1 Available under license
1.187 libxft 2.3.2-2

1.187.1 Available under license
1.188 libkdb5-10 1.18.3-6+deb11u5
1.188.1 Available under license
1.189 zstd 1.4.4
1.189.1 Available under license
1.190 libdeflate 1.7-1
1.190.1 Available under license
1.191 cracklib 2.9.6-3.4
1.191.1 Available under license
1.192 libgirepository 1.66.1-1+b1
1.192.1 Available under license
1.193 lzo 2.10-2
1.193.1 Available under license
1.194 keyutils 1.6.1-2
1.194.1 Available under license
1.195 libpcre2-32-0 10.36-2+deb11u1
1.195.1 Available under license
1.196 librsvgdev 2.50.3+dfsg-1+deb11u1
1.196.1 Available under license
1.197 liblzma-dev 5.2.5-2.1~deb11u1
1.197.1 Available under license
1.198 pkg-config 0.29.2-1
1.198.1 Available under license
1.199 urllib3 1.26.20
1.199.1 Available under license
1.200 libext2fs2 1.46.2-2+deb11u1
1.200.1 Available under license
1.201 libsaslmodulesdb 2.1.27+dfsg-2.1+deb11u1
1.201.1 Available under license
1.202 libmagickcore-6-headers 6.9.11.60+dfsg-1.3+deb11u4
1.202.1 Available under license
1.203 libdatrie 0.2.13-1
1.203.1 Available under license
1.204 libpthread-stubs 0.4-1
1.204.1 Available under license
1.205 autocommand 2.2.2
1.205.1 Available under license
1.206 python-stdlib-extensions 3.9.2-1
1.206.1 Available under license

1.207 brotli 1.0.9-2+b2
1.207.1 Available under license
1.208 libpcre2-posix2 10.36-2+deb11u1
1.208.1 Available under license
1.209 libgcc-10-dev 10.2.1-6
1.209.1 Available under license
1.210 libgmp-dev 6.2.1+dfsg-1+deb11u1
1.210.1 Available under license
1.211 libltdl 2.4.6-15
1.211.1 Available under license
1.212 libtiff 4.2.0-1+deb11u5
1.212.1 Available under license
1.213 hostname 3.23
1.213.1 Available under license
1.214 libdjvulibre-text 3.5.28-2
1.214.1 Available under license
1.215 tenacity 8.2.2
1.215.1 Available under license
1.216 subversion 1.14.1-3+deb11u1
1.216.1 Available under license
1.217 audit 3.0-2
1.217.1 Available under license
1.218 wget 1.21-1+deb11u1
1.218.1 Available under license
1.219 libmaxminddb 1.5.2-1
1.219.1 Available under license
1.220 importlib-resources 6.4.0
1.220.1 Available under license
1.221 pango 1.46.2-3
1.221.1 Available under license
1.222 libstd-c 10.2.1-6
1.222.1 Available under license
1.223 bluez 5.55-3.1+deb11u2
1.223.1 Available under license
1.224 libgdk-pixbuf2-0 2.42.2+dfsg-1+deb11u2
1.224.1 Available under license
1.225 libsepol 3.1-1+deb11u1
1.225.1 Available under license
1.226 liblqr-1-0 0.4.2-2.1

1.226.1 Available under license
1.227 libtasn 4.16.0-2+deb11u1
1.227.1 Available under license
1.228 libthai-data 0.1.28-3
1.228.1 Available under license
1.229 diffutils 3.7-5
1.229.1 Available under license
1.230 libmount 2.36.1-8+deb11u2
1.230.1 Available under license
1.231 utf8proc 2.5.0-1
1.231.1 Available under license
1.232 libnpth0 1.6-3
1.232.1 Available under license
1.233 db-defaults 5.3.1+nmu1
1.233.1 Available under license
1.234 mysql-common 5.8+1.0.7
1.234.1 Available under license
1.235 libmagickwand-6-q16-dev 6.9.11.60+dfsg-1.3+deb11u4
1.235.1 Available under license
1.236 apr 1.7.0-6+deb11u2
1.236.1 Available under license
1.237 login 4.8.1-1
1.237.1 Available under license
1.238 libgpg-error 1.38-2
1.238.1 Available under license
1.239 libgdk-pixbuf-2.0-dev 2.42.2+dfsg-1+deb11u2
1.239.1 Available under license
1.240 libcbin 2.31-13+deb11u11
1.240.1 Available under license
1.241 libapt-pkg 2.2.4
1.241.1 Available under license
1.242 libgdbm6 1.19-2
1.242.1 Available under license
1.243 libcap-ng 0.7.9-2.2+b1
1.243.1 Available under license
1.244 pinentry 1.1.0-4
1.244.1 Available under license
1.245 mpdecimal 2.5.1-1
1.245.1 Notifications

1.245.2 Available under license

1.246 libfido2 1.6.0-2

1.246.1 Available under license

1.247 libksba 1.5.0-3+deb11u2

1.247.1 Available under license

1.248 dpkg 1.20.13

1.248.1 Available under license

1.249 bzip2 1.0.8-4

1.249.1 Available under license

1.250 npth 1.6-3

1.250.1 Available under license

1.251 libxss 1.2.3-1

1.251.1 Available under license

1.252 libpkit 0.23.22-1

1.252.1 Available under license

1.253 e2fsprogs 1.46.2-2+deb11u1

1.253.1 Available under license

1.254 libcrypt 4.4.18-4

1.254.1 Available under license

1.255 libpwquality 1.4.4-1

1.255.1 Available under license

1.256 gcc-10-base 10.2.1-6

1.256.1 Available under license

1.257 libmagickcore-6-arch-config 6.9.11.60+dfsg-1.3+deb11u4

1.257.1 Available under license

1.258 tcltk-defaults 8.6.11+1

1.258.1 Available under license

1.259 debian-archive-keyring 2021.1.1+deb11u1

1.259.1 Available under license

1.260 libkcrypto 1.18.3-6+deb11u5

1.260.1 Available under license

1.261 libpammodulesbin 1.4.0-9+deb11u1

1.261.1 Available under license

1.262 libevent-extra-2.1-7 2.1.12-stable-1

1.262.1 Available under license

1.263 wheel 0.43.0

1.263.1 Available under license

1.264 cairo 1.16.0-5

1.264.1 Available under license

1.265 nghttp2 1.43.0-1+deb11u2
1.265.1 Available under license
1.266 libbacktrace 10.2.1-6
1.266.1 Available under license
1.267 libsigsegv 2.13-1
1.267.1 Available under license
1.268 simple launcher 1.1.0.14
1.268.1 Available under license
1.269 libdav1d4 0.7.1-3+deb11u1
1.269.1 Available under license
1.270 libkrb5-dev 1.18.3-6+deb11u5
1.270.1 Available under license
1.271 libxcb 1.14-3
1.271.1 Available under license
1.272 patch 2.7.6-7
1.272.1 Available under license
1.273 g++-10 10.2.1-6
1.273.1 Available under license
1.274 libbrotli-dev 1.0.9-2+b2
1.274.1 Available under license
1.275 libgssrpc 1.18.3-6+deb11u5
1.275.1 Available under license
1.276 libxft-dev 2.3.2-2
1.276.1 Available under license
1.277 libwebp-dev 0.6.1-2.1+deb11u2
1.277.1 Available under license
1.278 liblcms2-dev 2.12~rc1-2
1.278.1 Available under license
1.279 libx11-dev 1.7.2-1+deb11u2
1.279.1 Available under license
1.280 libxslt 1.1.34-4+deb11u1
1.280.1 Available under license
1.281 djvulibre 3.5.28-2
1.281.1 Available under license
1.282 libapr 1.7.0-6+deb11u2
1.282.1 Notifications
1.282.2 Available under license
1.283 libwmf 0.2.8.4-17
1.283.1 Available under license

1.284 libcrack 2.9.6-3.4

1.284.1 Available under license

1.285 idna 3.4

1.285.1 Available under license

1.286 libyaml-dev 0.2.2-1

1.286.1 Available under license

1.287 libsepol-devel 3.1-1+deb11u1

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.7 libxcbshm 1.14-3

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1.8 distro 1.8.0

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1.9 tk 8.6.11-2

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1.15 pcre 8.39-13

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Written by: Philip Hazel
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1.16 m4 1.4.18-5

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
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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
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.24 libkrb 1.18.3-6+deb11u5

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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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
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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
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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
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.25 libcom-err 1.46.2-2+deb11u1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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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>.

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the patent situation in a way that addresses the concerns of the free
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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=-=-=-

Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/   (for prereleases)
 ftp://sourceware.org/pub/newlib/   (for newlib)
 git://git.savannah.gnu.org/gm2.git   (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language   Compiler package Library package   Documentation

Ada
           gnat-10   libgnat-10   gnat-10-doc
BRIG   gccbrig-10   libhsail-rt0
C   gcc-10   gcc-10-doc
C++   g++-10   libstdc++6   libstdc++6-10-doc
D   gdc-10
Fortran 95   gfortran-10   libgfortran5   gfortran-10-doc
Go   gccgo-10   libgo0
Objective C   gobjc-10   libobjc4
Objective C++ gobjc++-10
Modula-2   gm2-10   libgm2

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

Language Sources   Development   Debugging   Position-Independent
----
C++   libstdc++6-10-dbg libstdc++6-10-pic
D   libphobos-10-dev

Additional packages include:

All languages:
libgcc1,
 libgcc2, libgcc4   GCC intrinsics (platform-dependent)
gcc-10-base   Base files common to all compilers
gcc-10-soft-float   Software floating point (ARM only)

gcc-10-source The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10 GNAT version library

C:
cpp-10, cpp-10-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
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- Various config files in gcc/config/ used in runtime libraries.
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
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iconv (Charset Conversion Library) v2.0

(27) Artem Bityuckiy (--enable-newlib-iconv)

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DRuntime: Runtime Library for the D Programming Language
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========

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"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.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided
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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
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You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange
for a fee.

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

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

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

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

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

performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the
Library, and can be reasonably considered independent and separate
works in themselves, then this License, and its terms, do not
apply to those sections when you distribute them as separate
works. But when you distribute the same sections as part of a

whole which is a work based on the Library, the distribution of
the whole must be on the terms of this License,
whose permissions
for other licensees extend to the entire whole, and thus to each
and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

performing this distribution.

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

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

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

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

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other
library facilities not covered by this License, and distribute
such a combined library, provided that the separate distribution

of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

b. Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.

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

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries
==========

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

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Also add information on how to contact you by electronic and paper
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You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

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

SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

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@heading Preamble

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When we speak of free software, we are referring to freedom, not
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want it, that you can change the software or use pieces of it in new
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To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you
have certain responsibilities if you distribute copies of the
software, or if you modify it: responsibilities to respect the freedom
of others.

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

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
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For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to

authors of previous versions.

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

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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

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

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

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

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

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

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

@item Source Code.

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

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

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

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to

control those activities. However,
it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms 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.

@item Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
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to run the unmodified Program. The output from running a
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You may make, run and propagate covered works that you do not convey,
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You may convey covered works to others for the sole purpose of having
them make modifications exclusively for you, or provide you with
facilities for running those works, provided that you comply with the
terms of this License in conveying all material for which you do not
control copyright. Those thus making or running the covered works for
you must do so exclusively on your behalf, under your direction and
control, on terms that prohibit them from making any copies of your
copyrighted material outside their relationship with you.

Conveying under any other circumstances is
permitted solely under the
conditions stated below. Sublicensing is not allowed; section 10
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@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article

11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

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

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

@item Conveying Modified Source Versions.

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

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

@item
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''.

@item
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.

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

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.

@item 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:

@enumerate a
@item
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.

@item
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.

@item
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.

@item
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.

@item
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.

@end enumerate

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the
 object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any
tangible personal property which is normally used for personal,
family, or household purposes, or (2) anything designed or sold for
incorporation into a dwelling. In determining whether a product is a
consumer product, doubtful cases shall be resolved in favor of
coverage. For a particular product received by a particular user,
``normally used'' refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way
in which the particular user actually uses, or expects or is expected
to use, the product. A product is a consumer product regardless of

whether the product has substantial commercial, industrial or
non-consumer uses, unless such uses represent the only significant
mode of use of the product.

``Installation Information'' for a User Product means any methods,
procedures, authorization keys, or other information required to
install
and execute modified versions of a covered work in that User
Product from a modified version of its Corresponding Source. The
information must suffice to ensure that the continued functioning of
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1.32 jaraco-context 5.3.0

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1.34 libxt-dev 1.2.0-1

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1.35 tzdata 2024b-0+deb11u1

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DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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```
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*/
```

1.40 libpixmandev 0.40.0-1.1~deb11u1

1.40.1 Available under license :

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

```
--- pixman-0.40.0.orig/.editorconfig
+++ pixman-0.40.0/.editorconfig
@@ -0,0 +1,14 @@
+# To use this config on you editor, follow the instructions at:
+# http://editorconfig.org
+
+root = true
+
+[*]
+tab_width = 8
+
```

```
+[Makefile.*]
+indent_style = tab
+
+[meson.build,meson_options.txt]
+indent_style = space
+indent_size = 2
--- pixman-0.40.0.orig/.gitlab-ci.yml
+++ pixman-0.40.0/.gitlab-ci.yml
@@ -0,0 +1,19 @@
+image: fedora:28
+
+autotools-build:
+    script:
+    - dnf -y install dnf-plugins-core
+    - dnf -y groupinstall buildsys-build
+    - dnf -y builddep pixman
+    - ./autogen.sh
+    - make -sj4 check
+
+meson-build:
+    script:
+    - dnf -y install dnf-plugins-core
+    - dnf -y groupinstall buildsys-build
+    - dnf -y builddep pixman
+    - dnf -y install ninja-build
+    - python3 -m pip install meson>=0.47.2
+    - meson build
+    - ninja -C build test
--- pixman-0.40.0.orig/CODING_STYLE
+++ pixman-0.40.0/CODING_STYLE
@@
 -0,0 +1,199 @@
+Pixman coding style.
+====================
+
+The pixman coding style is close to cairo's with one exception: braces
+go on their own line, rather than on the line of the if/while/for:
+
+ if (condition)
 {
+     do_something();
+     do_something_else();
 }
+
+not
+
 if (condition) {
+     do_something();
```

```
+     do_something_else();
+       }
+
+
+
+Indentation
+===========
+
+Each new level is indented four spaces:
+
+ if (condition)
+     do_something();
+
+This may be achieved with space characters or with a combination of
+tab characters and space characters. Tab characters are interpreted as
+
+ Advance to the next column which is a multiple of 8.
+
+
+Names
+=====
+
+In all names, words are separated with underscores. Do not use
+CamelCase for any names.
+
+Macros have ALL_CAPITAL_NAMES
+
+Type names are in lower case and end with "_t". For example
+pixman_image_t.
+
+Labels, functions and variables have lower case names.
+
+
+Braces
+======
+
+Braces
 always go on their own line:
+
+ if (condition)
+ {
+     do_this ();
+     do_that ();
+ }
+ else
+ {
+     do_the_other ();
+ }
```

+
+Rules for braces and substatements of if/while/for/do:
+
+* If a substatement spans multiple lines, then there must be braces
+ around it.
+
+* If the condition of an if/while/for spans multiple lines, then
+ braces must be used for the substatements.
+
+* If one substatement of an if statement has braces, then the other
+ must too.
+
+* Otherwise, don't add braces.
+
+
+Comments
+========
+
+For comments either like this:
+
+   /* One line comment */
+
+or like this:
+
+ /* This is a multi-line comment
+ *
+   * It extends over multiple lines
+ */
+
+Generally comments should say things that aren't clear from the code
+itself. If too many comments say obvious things, then people will just
+stop reading all comments, including the good ones.
+
+
+Whitespace
+==========
+
+* Put a single space after commas
+
+* Put spaces around
 arithmetic operators such a +, -, *, /:
+
+   y * stride + x
+
+   x / unit_x
+
+* Do not put spaces after the address-of operator, the * when used as
+ a pointer derefernce or the ! and ~ operators:

+
+   &foo;
+
+   ~0x00000000
+
+   !condition
+
+   *result = 100
+
+* Break up long lines (> ~80 characters) and use whitespace to align
+ things nicely. This is one way:
+
+   some_very_long_function name (
+   implementation, op, src, mask, dest,
+ src_x, src_y, mask_x, mask_y, dest_x, dest_y,
+ width, height);
+
+ This is another:
+
+   some_very_long_function_name (implementation, op,
+   src, mask, dest,
+   src_x, src_y,
+   mask_x, mask_y,
+   dest_x, dest_y,
+   width, height);
+
+* Separate logically distinct chunks with a single newline. This
+ obviously applies between functions, but also applies within a
+ function or block or structure definition.
+
+* Use a newline after a block
+ of variable declarations.
+
+* Use a single space before a left parenthesis, except where the
+ standard will not allow it, (eg. when defining a parameterized macro).
+
+* Don't eliminate newlines just because things would still fit on one
+ line. This breaks the expected visual structure of the code making
+ it much harder to read and understand:
+
+ if (condition) foo (); else bar (); /* Yuck! */
+
+
+Function Definitions
+====================
+
+Function definitions should take the following form:
+

```
+ void
+ my_function (int argument)
+ {
+     do_my_things ();
+ }
+
+If all the parameters to a function fit naturally on one line, format
+them that way. Otherwise, put one argument on each line, adding
+whitespace so that the parameter names are aligned with each other.
+
+I.e., do either this:
+
+       void
+       short_arguments (const char *str, int x, int y, int z)
+       {
+       }
+
+or this:
+
+ void
+ long_arguments (const char *char_star_arg,
+   int     int_arg,
+   double
    *double_star_arg,
+   double     double_arg)
+ {
+ }
+
+
+Mode lines
+==========
+
+Given the rules above, what is the best way to simplify one's life as
+a code monkey? Get your editor to do most of the tedious work of
+beautifying your code!
+
+As a reward for reading this far, here are some mode lines for the more
+popular editors:
+/*
+ * vim:sw=4:sts=4:ts=8:tw=78:fo=tcroq:cindent:cino=\:0,(0
+ * vim:isk=a-z,A-Z,48-57,_,.,-,>
+ */
+
--- pixman-0.40.0.orig/ChangeLog
+++ pixman-0.40.0/ChangeLog
@@ -0,0 +1,25687 @@
+commit 0313f35ab96365016264920c91035ea99dd0931f
+Author: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
```

+Date: Wed Nov 21 12:40:21 2018 +0100
+
+   Bump version to 0.36.0
+
+   Signed-off-by: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
+
+commit 8a5d44c420f8a985532a5e22ac020219ef5141ad
+Author: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
+Date: Wed Nov 21 12:39:11 2018 +0100
+
+   pixman: Update git repository to the one
 at gitlab.
+
+   Signed-off-by: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
+
+commit 489fa0df11eef83912932f7be881f35bbe0a1b93
+Author: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
+Date: Wed Jul 11 12:10:41 2018 +0200
+
+   pixman: Add tests for (a)rgb floating point formats.
+
+   Add some basic tests to ensure that the newly added formats work as
+   intended.
+
+   Signed-off-by: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
+   Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit a4b8a26d2b741e1b3a17b58d34b67bffa17bf15c
+Author: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
+Date: Wed May 30 16:07:10 2018 +0200
+
+   pixman: Add support for argb/xrgb float formats, v5.
+
+   Pixman is already using the floating point formats internally, expose
+   this capability in case someone wants to support higher bit per
+   component formats.
+
+   This is useful for igt which depends on cairo to do the rendering.
+
   It can use it to convert floats internally to planar Y'CbCr formats,
+   or to F16.
+
+   We add a new type PIXMAN_TYPE_RGBA_FLOAT for this format, which is an
+   all float array of R, G, B, and A. Formats that use mixed float/int
+   RGBA aren't supported, and will probably need their own type.
+
+   Changes since v1:
+   - Use RGBA 128 bits and RGB 96 bits memory layouts, to better match the opengl format.

+ Changes since v2:
+ - Add asserts in accessor and for strides to force alignment.
+ - Move test changes to their own commit.
+ Changes since v3:
+ - Define 32bpc as PIXMAN_FORMAT_PACKED_C32
+ - Rename pixman accessors from rgb*_float_float to rgb*f_float
+ Changes since v4:
+ - Create a new PIXMAN_FORMAT_BYTE for fitting up to 64 bits per component.
+ (based on Siarhei Siamashka's suggestion)
+ - Use new format type PIXMAN_TYPE_RGBA_FLOAT
+
+ Signed-off-by: Maarten Lankhorst <maarten.lankhorst@linux.intel.com>
+ Reviewed-by:
Chris Wilson <chris@chris-wilson.co.uk> #v4
+ [mlankhorst: Fix missing braces in PIXMAN_FORMAT_RESHIFT macro]
+
+commit 018bf2f23033ea0c82df3e4cf48dbb330bec9414
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Tue Jun 12 17:38:57 2018 +0300
+
+ test: Fix stride calculation in stress-test
+
+ Currently the number of bits per pixel is used instead of the
+ number of bytes per pixel when calculating image strides. This
+ does not cause any real problems, but the gaps between scanlines
+ are excessively large.
+
+ This patch actually converts bits to bytes and rounds up the result
+ to the nearest byte boundary.
+
+ Signed-off-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+ Reviewed-by: soren.sandmann@gmail.com
+
+commit bd2b49185b28c5024597a5e530af9fc25de3193a
+Author: Vladimir Smirnov <civil@gentoo.org>
+Date: Mon Jun 4 10:04:15 2018 -0700
+
+ test: Adjust for clang's removal of __builtin_shuffle
+
+
__builtin_shuffle was removed in clang 5.0.
+
+ Build log says:
+ test/utils-prng.c:207:27: error: use of unknown builtin '__builtin_shuffle' [-Wimplicit-function-declaration]
+ randdata.vb = __builtin_shuffle (randdata.vb, bswap_shufflemask);
+ ^
+ test/utils-prng.c:207:25: error: assigning to 'uint8x16' (vector of 16 'uint8_t' values) from incompatible type 'int'
+ randdata.vb = __builtin_shuffle (randdata.vb, bswap_shufflemask);

```
+                     ^ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
+    2 errors generated
+
+    Link to original discussion:
+    http://lists.llvm.org/pipermail/cfe-dev/2017-August/055140.html
+
+    It's possible to build pixman if attached patch is applied. Basically
+    patch adds check for __builtin_shuffle support and in case there is
+    none, falls back to clang-specific __builtin_shufflevector that do the
+    same but have different API.
+
+    Bugzilla:
 https://bugs.gentoo.org/646360
+    Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=104886
+    Tested-by: Philip Chimento <philip.chimento@gmail.com>
+    Reviewed-by: Matt Turner <mattst88@gmail.com>
+    Reviewed-by: Adam Jackson <ajax@redhat.com>
+
+commit a75c69f12221e77904a713471141dc15ce733481
+Merge: ddf42d6 9034d0c
+Author: Adam Jackson <ajax@nwnk.net>
+Date:   Tue Jun 5 16:33:50 2018 +0000
+
+    Merge branch 'ci' into 'master'
+
+    ci: Add .gitlab-ci.yml
+
+    See merge request pixman/pixman!1
+
+commit 9034d0cc3241c56cbe3bdbc98247a68e3529ee48
+Author: Adam Jackson <ajax@redhat.com>
+Date:   Thu May 31 12:32:18 2018 -0400
+
+    ci: Add .gitlab-ci.yml
+
+    Just builds on Fedora 28 for x86_64 at the moment, but it's a start.
+    Credit to Daniel Stone for eliminating the nested docker image.
+
+    Signed-off-by: Adam Jackson <ajax@redhat.com>
+
+commit ddf42d627c724ef5337ea86e1ac7ef24a5df8f37
+Author: Dan Horák <dan@danny.cz>
+Date:   Thu
 May 10 10:47:09 2018 -0400
+
+    vmx: Fix vector loads on ppc64le
+
+    Use vector intrinsic for loading possibly unaligned data instead of a
```

+ typecast.
+
+ Bugzilla: https://bugzilla.redhat.com/1572540
+ Signed-off-by: Dan Horák <dan@danny.cz>
+ Signed-off-by: Adam Jackson <ajax@redhat.com>
+ Tested-by: Matt Turner <mattst88@gmail.com>
+ Reviewed-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 8b95e0e460baa499e54c19d29bf761d34c25badc
+Author: Behdad Esfahbod <behdad@behdad.org>
+Date: Tue Jan 9 10:26:29 2018 +0100
+
+ Promote unsigned short to unsigned int explicitly
+
+ ...to avoid default promotion to signed int, which causes undefined
+ behaviour in the shift expression.
+
+commit 85467ec308f8621a5410c007491797b7b1847601
+Author: Søren Sandmann Pedersen <soren.sandmann@gmail.com>
+Date: Sat Sep 3 15:09:12 2016 -0400
+
+ Revert "demos/scale: Added pulldown to choose PIXMAN_FILTER_* value"
+
+ This reverts commit
375f5ec5c5d2a6cc3586f57e36fdf08a3d0ac4e4.
+
+ This patch was accidentally pushed.
+
+commit 17c4ce2e393af597db3c04295c21afc7ce34aa22
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:15 2016 -0700
+
+ pixman-filter: Made Gaussian a bit wider
+
+ Expanded the size slightly (from ~4.25 to 5) to make the cutoff less
+ noticable. Previouly the value at the cutoff was
+ gaussian_filter(sqrt(2)*3/2) = 0.00626 which is larger than the
+ difference between 8-bit pixels (1/255 = 0.003921). New cutoff is
+ gaussian_filter(2.5) = 0.001089 which is smaller.
+
+ v11: added some math to commit message
+ v14: left SIGMA in there
+ Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+ Acked-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Reviewed-by: Søren Sandmann <soren.sandmann@gmail.com>
+
+commit d286078b28bdef15aa0498e6e7ec7da68a42bfeb
+Author: Bill Spitzak <spitzak@gmail.com>

+Date: Tue Aug 30 22:03:14 2016 -0700
+
+   pixman-filter:
 Nested polynomial for cubic
+
+   v11: Restored range checks
+
+   Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+   Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 133142449b22fc2799d922479514e677ae91f0f5
+Author: Søren Sandmann Pedersen <soren.sandmann@gmail.com>
+Date: Fri Apr 8 22:32:30 2016 -0400
+
+   pixman-filter: Fix several issues related to normalization
+
+   There are a few bugs in the current normalization code
+
+   (1) The normalization is based on the sum of the *floating point*
+   values generated by integral(). But in order to get the sum to be
+   close to pixman_fixed_1, the sum of the rounded fixed point values
+   should be used.
+
+   (2) The multiplications in the normalization loops often round the
+   same way, so the residual error can fairly large.
+
+   (3) The residual error is added to the sample located at index
+   (width - width / 2), which is not the midpoint for odd widths (and
+
       for width 1 is in fact outside the array).
+
+   This patch fixes these issues by (1) using the sum of the fixed point
+   values as the total to divide by, (2) doing error diffusion in the
+   normalization loop, and (3) putting any residual error (which is now
+   guaranteed to be less than pixman_fixed_e) at the first sample, which
+   is the only one that didn't get any error diffused into it.
+
+   Signed-off-by: Søren Sandmann <soren.sandmann@gmail.com>
+
+commit 3b46fce6fec566e93a8a6b90df113272d203aafc
+Author: Søren Sandmann Pedersen <soren.sandmann@gmail.com>
+Date: Tue Aug 30 22:03:12 2016 -0700
+
+   pixman-filter: Speed up BOX/BOX filter
+
+   The convolution of two BOX filters is simply the length of the
+   interval where both are non-zero, so we can simply return width from
+   the integral() function because the integration region has already

+ been restricted to be such that both functions are non-zero on it.
+
+ This is both
faster and more accurate than doing numerical integration.
+
+ This patch is based on one by Bill Spitzak
+
+ https://lists.freedesktop.org/archives/pixman/2016-March/004446.html
+
+ with these changes:
+
+ - Rebased to not assume any changes in the arguments to integral().
+
+ - Dropped the multiplication by scale
+
+ - Added more details in the commit message.
+
+ Signed-off-by: Søren Sandmann <soren.sandmann@gmail.com>
+ Reviewed-by: Bill Spitzak <spitzak@gmail.com>
+
+commit 8855b3a2a231ab348c02c0d92f0051b079eabfa3
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:11 2016 -0700
+
+ pixman-filter: integral splitting is only needed for triangle filter
+
+ Only the triangle is discontinuous at 0. The other filters resemble a
+ cubic closely enough that Simpsons integration works without
+ splitting.
+
+ Changes by Søren: Rebase without the changes to the integral function,
+ update comment
to match the new code.
+
+ Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+ Signed-off-by: Søren Sandmann <soren.sandmann@gmail.com>
+ Reviewed-by: Søren Sandmann <soren.sandmann@gmail.com>
+
+commit 6ae281fbb7a02b94a3900b6677a51cdd28096ed7
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:10 2016 -0700
+
+ pixman-filter: Correct Simpsons integration
+
+ Simpsons uses cubic curve fitting, with 3 samples defining each
+ cubic. This makes the weights of the samples be in a pattern of
+ 1,4,2,4,2...4,1, and then dividing the result by 3.
+

+   The previous code was using weights of 1,2,0,6,0,6...,2,1.
+
+   With this fix the integration is accurate enough that the number of
+   samples could be reduced a lot. Multiples of 12 seem to work best.
+
+   v7: Merged with patch to reduce from 128 samples to 16
+   v9: Changed samples from 16 to 12
+   v10: Fixed rebase error that made it not compile
+   v11: minor whitespace
 change
+   v14: more whitespace changes
+
+   Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+   Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+   Reviewed-by: Søren Sandmann <soren.sandmann@gmail.com>
+
+commit 6acaf2bcb1246529143c112dbce6dd9d6f7cb51e
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:09 2016 -0700
+
+   pixman-filter: reduce amount of malloc/free/memcpy to generate filter
+
+   Rearranged so that the entire block of memory for the filter pair
+   is allocated first, and then filled in. Previous version allocated
+   and freed two temporary buffers for each filter and did an extra
+   memcpy.
+
+   v8: small refactor to remove the filter_width function
+
+   v10: Restored filter_width function but with arguments changed to
+   match later patches
+
+   v11: Removed unused arg and pointer from filter_width function
+   Whitespace fixes.
+
+   Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+   Reviewed-by:
 Oded Gabbay <oded.gabbay@gmail.com>
+   Acked-by: Søren Sandmann <soren.sandmann@gmail.com>
+
+commit d0e6c9f4f65e429058b97d2f947b048b445c17c4
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:08 2016 -0700
+
+   pixman-image: Added enable-gnuplot config to view filters in gnuplot
+
+   If enable-gnuplot is configured, then you can pipe the output of a
+   pixman-using program to gnuplot and get a continuously-updated plot of

+ the horizontal filter. This works well with demos/scale to test the
+ filter generation.
+
+ The plot is all the different subposition filters shuffled
+ together. This is misleading in a few cases:
+
+ IMPULSE.BOX - goes up and down as the subfilters have different
+ numbers of non-zero samples
+
+ IMPULSE.TRIANGLE - somewhat crooked for the same reason
+
+ 1-wide filters - looks triangular, but a 1-wide box would be more
+ accurate
+
+
Changes by Søren: Rewrote the pixman-filter.c part to
+ - make it generate correct coordinates
+ - add a comment on how coordinates are generated
+ - in rounding.txt, add a ceil() variant of the first-sample
+ formula
+ - make the gnuplot output slightly prettier
+
+ v7: First time this ability was included
+
+ v8: Use config option
+ Moved code to the filter generator
+ Modified scale demo to not call filter generator a second time.
+
+ v10: Only print if successful generation of plots
+ Use #ifdef, not #if
+
+ v11: small whitespace fixes
+ v12: output range from -width/2 to width/2 and include y==0, to avoid misleading plots
+ for subsample_bits==0 and for box filters which may have no small values.
+
+ Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+
+commit 375f5ec5c5d2a6cc3586f57e36fdf08a3d0ac4e4
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:07 2016
-0700
+
+ demos/scale: Added pulldown to choose PIXMAN_FILTER_* value
+
+ This is very useful for comparing the results of SEPARABLE_CONVOLUTION
+ with BILINEAR and NEAREST.
+
+ v14: Removed good/best items

+ v15: Skip filter generation so gnuplot output continues showing previous value
+
+ Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+ Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit afee2adc1e0052795a6ca8195e09a597bebde834
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:06 2016 -0700
+
+ demos/scale: Default to locked axis
+
+ Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+ Reviewed-by: Søren Sandmann <soren.sandmann@gmail.com>
+
+commit 1e1af34d3b74808d08a4067ff9d093a020e25da5
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:05 2016 -0700
+
+ demos/scale: fix blank subsamples spin box
+
+ It now shows the initial value of 4 when the demo is started
+
+ Signed-off-by:
Bill Spitzak <spitzak@gmail.com>
+ Reviewed-by: Søren Sandmann <soren.sandmann@gmail.com>
+
+commit 99b574109dabff9c3c6fa9296b3b0534411b6fdb
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Tue Aug 30 22:03:04 2016 -0700
+
+ demos/scale: Compute filter size using boundary of xformed ellipse
+
+ Instead of using the boundary of xformed rectangle, use the boundary
+ of xformed ellipse. This is much more accurate and less blurry. In
+ particular the filtering does not change as the image is rotated.
+
+ Signed-off-by: Bill Spitzak <spitzak@gmail.com>
+ Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Reviewed-by: Soren Sandmann <soren.sandmann@gmail.com>
+
+commit b9ead7ddf7c2bb373808e59a4f625e2e732ef2e2
+Author: Søren Sandmann Pedersen <soren.sandmann@gmail.com>
+Date: Tue Aug 30 22:03:03 2016 -0700
+
+ More general BILINEAR=>NEAREST reduction
+
+ Generalize and simplify the code that reduces BILINEAR to NEAREST so
+ that the reduction happens

for all affine transformations where
+ t00...t12 are integers and (t00 + t01) and (t10 + t11) are both
+ odd. This is a sufficient condition for the resulting transformed
+ coordinates to be exactly at the center of a pixel so that BILINEAR
+ becomes identical to NEAREST.
+
+ V2: Address some comments by Bill Spitzak
+
+ Signed-off-by: Søren Sandmann <soren.sandmann@gmail.com>
+ Reviewed-by: Bill Spitzak <spitzak@gmail.com>
+
+commit 76123690139a7f342776a885a7478a6c81712145
+Author: Søren Sandmann Pedersen <soren.sandmann@gmail.com>
+Date: Tue Aug 30 22:03:02 2016 -0700
+
+ Add new test of filter reduction from BILINEAR to NEAREST
+
+ This new test tests a bunch of bilinear downscalings, where many have
+ a transformation such that the BILINEAR filter can be reduced to
+ NEAREST (and many don't).
+
+ A CRC32 is computed for all the resulting images and compared to a
+ known-good value for both 4-bit and 7-bit interpolation.
+

+ V2: Remove leftover comment, some minor formatting fixes, use a
+ timestamp as the PRNG seed.
+
+ Signed-off-by: Søren Sandmann <soren.sandmann@gmail.com>
+ Reviewed-by: Bill Spitzak <spitzak@gmail.com>
+
+commit eb4a832ec22e4257b59cac752b02a1d27f4363bc
+Author: Søren Sandmann Pedersen <soren.sandmann@gmail.com>
+Date: Tue Aug 30 22:03:01 2016 -0700
+
+ pixman-fast-path.c: Pick NEAREST affine fast paths before BILINEAR ones
+
+ When a BILINEAR filter is reduced to NEAREST, it is possible for both
+ types of fast paths to run; in this case, the NEAREST ones should be
+ preferred as that is the simpler filter.
+
+ Signed-off-by: Soren Sandmann <soren.sandmann@gmail.com>
+ Reviewed-by: Bill Spitzak <spitzak@gmail.com>
+
+commit 7c6066b700c7cdd4aeb8be426b14b3a5f0de4b6c
+Author: Thomas Petazzoni <thomas.petazzoni@free-electrons.com>
+Date: Sun Jan 17 15:22:50 2016 +0100
+

+   pixman-private: include <float.h> only in C code
+
+
  <float.h> is included unconditionally by pixman-private.h, which in
+   turn gets included by assembler files. Unfortunately, with certain C
+   libraries (like the musl C library), <float.h> cannot be included in
+   assembler files:
+
+   CCLD   libpixman-arm-simd.la
+   /home/test/buildroot/output/host/usr/arm-buildroot-linux-musleabihf/sysroot/usr/include/float.h: Assembler
messages:
+   /home/test/buildroot/output/host/usr/arm-buildroot-linux-musleabihf/sysroot/usr/include/float.h:8: Error: bad
instruction `int __flt_rounds(void)'
+   /home/test/buildroot/output/host/usr/arm-buildroot-linux-musleabihf/sysroot/usr/include/float.h: Assembler
messages:
+   /home/test/buildroot/output/host/usr/arm-buildroot-linux-musleabihf/sysroot/usr/include/float.h:8: Error: bad
instruction `int __flt_rounds(void)'
+
+   It turns out however that <float.h> is not needed by assembly files,
+   so we move its inclusion within the #ifndef __ASSEMBLER__ condition,
+   which solves
 the problem.
+
+   Signed-off-by: Thomas Petazzoni <thomas.petazzoni@free-electrons.com>
+   Reviewed-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 342cbf1644125919c51ab099e434951429e66411
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Dec 23 23:22:02 2015 +0100
+
+   build: Distinguish SKIP and FAIL on Win32
+
+   The `check` target in test/Makefile.win32 assumed that any non-0 exit
+   code from the tests was an error, but the testsuite is currently using
+   77 as a SKIP exit code (based on the convention used in autotools).
+
+   Fixes fence-image-self-test and cover-test (now reported as SKIP).
+
+   Signed-off-by: Andrea Canciani <ranma42@gmail.com>
+   Acked-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit af0689716a011de3645aaefc57138c9d1d0e3ae6
+Author: Simon Richter <Simon.Richter@hogyros.de>
+Date: Tue Dec 22 22:45:33 2015 +0100
+
+   build: Use `del` instead of `rm` on `cmd.exe` shells
+
+   The `rm` command is

not usually available when running on Win32 in a
+ `cmd.exe` shell. Instead the shell provides the `del` builtin, which
+ has somewhat more limited wildcars expansion and error handling.
+
+ This makes all of the Makefile targets work on Win32 both using
+ `cmd.exe` and using the MSYS environment.
+
+ Signed-off-by: Simon Richter <Simon.Richter@hogyros.de>
+ Signed-off-by: Andrea Canciani <ranma42@gmail.com>
+ Acked-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 93b876c11063f58c87fd93ed41e4d3f483bf59ab
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Dec 22 22:46:05 2015 +0100
+
+ build: Do not use `mkdir -p` on Windows
+
+ When the build is performed using `cmd.exe` as shell, the `mkdir`
+ command does not support the `-p` flag. The ability to create multiple
+ netsted folder is not used, hence it can be easily replaced by only
+ creating the directory if it does not exist.
+
+ This makes the build work on the `cmd.exe`
shell, except for the
+ `clean` targets.
+
+ Signed-off-by: Andrea Canciani <ranma42@gmail.com>
+ Acked-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit cc35d01980df2e2d686568ef7f1216bcc809b5aa
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Dec 23 11:15:59 2015 +0100
+
+ build: Avoid phony `pixman` target in test/Makefile.win32
+
+ Instead of explicitly depending on "pixman" for the "all" and "check"
+ targets, rely on the dependency to the .lib file
+
+ Signed-off-by: Andrea Canciani <ranma42@gmail.com>
+ Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit ceb49cbda93a59bf41a5a9908114534208f8250c
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Dec 22 21:53:14 2015 +0100
+
+ build: Remove use of BUILT_SOURCES from Makefile.win32
+
+ Since 3d81d89c292058522cce91338028d9b4c4a23c24 BUILT_SOURCES is not

+   used anymore, but it was unintentionally left in Win32 Makefiles.
+
+   Signed-off-by: Andrea Canciani
 <ranma42@gmail.com>
+   Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit ba1868a854b1a2073bc44c1074596bd9a8891245
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Wed Dec 23 10:46:40 2015 +0200
+
+   Post 0.34 branch creation version bump to 0.35.1
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 0e72e780865196e4edd720148d9a99704cd114b5
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Tue Dec 22 15:55:32 2015 +0200
+
+   Post-release version bump to 0.33.7
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 65f35270e4531621bd2e1ee5cdb31c56c3051c43
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Tue Dec 22 15:30:10 2015 +0200
+
+   Pre-release version bump to 0.33.6
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit a566f627dbd6ea8f2cba70a446e62caaa2ecbd26
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Tue Dec 15 14:53:18 2015 +0200
+
+   configura.ac: fix test for SSE2 & SSSE3 assembler
 support
+
+   This patch modifies the SSE2 & SSSE3 tests in configure.ac to use a
+   global variable to initialize vector variables. In addition, we now
+   return the value of the computation instead of 0.
+
+   This is done so gcc 4.9 (and lower) won't optimize the SSE assembly
+   instructions (when using -O1 and higher), because then the configure test
+   might incorrectly pass even though the assembler doesn't support the
+   SSE instructions (the test will pass because the compiler does support
+   the intrinsics).
+
+   v2: instead of using volatile, use a global variable as input

+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit d24b415f3e2753a588759d028b811e1ce38fea6c
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Oct 11 09:45:57 2015 +0200
+
+   mmx: Improve detection of support for "K" constraint
+
+   Older versions of clang emitted an error on the "K" constraint, but at
+   least since version 3.7 it is supported.
 Just like gcc, this
+   constraint is only allowed for constants, but apparently clang
+   requires them to be known before inlining.
+
+   Using the macro definition _mm_shuffle_pi16(A, N) ensures that the "K"
+   constraint is always applied to a literal constant, independently from
+   the compiler optimizations and allows building pixman-mmx on modern
+   clang.
+
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+   Signed-off-by: Andrea Canciani <ranma42@gmail.com>
+
+commit 312e381523662aacc2f0ea90eb9ae0634ac5b327
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Nov 18 14:16:24 2015 -0800
+
+   Revert "mmx: Use MMX2 intrinsics from xmmintrin.h directly."
+
+   This reverts commit 7de61d8d14e84623b6fa46506eb74f938287f536.
+
+   Newer versions of gcc allow inclusion of xmmintrin.h without -msse, but
+   still won't allow usage of the intrinsics.
+
+   Bugzilla: https://bugs.gentoo.org/show_bug.cgi?id=564024
+
+commit 3a50806cbeb713b7d1d07a06c6b503d9e43aefe8
+Author:
 Oded Gabbay <oded.gabbay@gmail.com>
+Date: Fri Oct 23 18:33:55 2015 +0300
+
+   Post-release version bump to 0.33.5
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit fa71d08a81c9bf3f2366ee45474ff868d9e10b8e
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Fri Oct 23 17:58:49 2015 +0300

+
+   Pre-release version bump to 0.33.4
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 9728241bd098bc4260e6cd83997dfecc64adc356
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Oct 13 13:35:59 2015 +0200
+
+   test: Fix fence-image-self-test on Mac
+
+   On MacOS X, according to the manpage of mprotect(), "When a program
+   violates the protections of a page, it gets a SIGBUS or SIGSEGV
+   signal.", but fence-image-self-test was only accepting a SIGSEGV as
+   notification of invalid access.
+
+   Fixes fence-image-self-test
+
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit
 7de61d8d14e84623b6fa46506eb74f938287f536
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun Oct 11 14:44:46 2015 -0700
+
+   mmx: Use MMX2 intrinsics from xmmintrin.h directly.
+
+   We had lots of hacks to handle the inability to include xmmintrin.h
+   without compiling with -msse (lest SSE instructions be used in
+   pixman-mmx.c). Some recent version of gcc relaxed this restriction.
+
+   Change configure.ac to test that xmmintrin.h can be included and that we
+   can use some intrinsics from it, and remove the work-around code from
+   pixman-mmx.c.
+
+   Evidently allows gcc 4.9.3 to optimize better as well:
+
+   text   data   bss   dec   hex filename
+   657078   30848   680 688606   a81de libpixman-1.so.0.33.3 before
+   656710   30848   680 688238   a806e libpixman-1.so.0.33.3 after
+
+   Reviewed-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+   Tested-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
    Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 90e62c086766afffd289a321c7de8ea4b5cac87d
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>

+Date: Fri Sep 4 15:39:00 2015 +0300
+
+   vmx: implement fast path vmx_composite_over_n_8888
+
+   Running "lowlevel-blt-bench over_n_8888" on Playstation3 3.2GHz,
+   Gentoo ppc (32-bit userland) gave the following results:
+
+   before: over_n_8888 = L1: 147.47 L2: 205.86 M:121.07
+   after: over_n_8888 = L1: 287.27 L2: 261.09 M:133.48
+
+   Cairo non-trimmed benchmarks on POWER8, 3.4GHz 8 Cores:
+
+   ocitysmap   659.69 -> 611.71   : 1.08x speedup
+   xfce4-terminal-a1 2725.22 -> 2547.47 : 1.07x speedup
+
+   Signed-off-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 2876d8d3dd6a71cb9eb3ac93e5b9c18b71a452da
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Fri Sep 4 03:09:20 2015 +0100
+
+   affine-bench:
 remove 8e margin from COVER area
+
+   Patch "Remove the 8e extra safety margin in COVER_CLIP analysis" reduced
+   the required image area for setting the COVER flags in
+   pixman.c:analyze_extent(). Do the same reduction in affine-bench.
+
+   Leaving the old calculations in place would be very confusing for anyone
+   reading the code.
+
+   Also add a comment that explains how affine-bench wants to hit the COVER
+   paths. This explains why the intricate extent calculations are copied
+   from pixman.c.
+
+   [Pekka: split patch, change comments, write commit message]
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 0e2e9751282b19280c92be4a80c5ae476bae0ce4
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Fri Sep 4 03:09:20 2015 +0100
+
+   Remove the 8e extra safety margin in COVER_CLIP analysis
+
+   As discussed in
+   http://lists.freedesktop.org/archives/pixman/2015-August/003905.html

+

+ the 8 * pixman_fixed_e (8e) adjustment which was applied to the transformed
+ coordinates is a legacy of rounding errors which used to occur in old
+ versions of Pixman, but which no longer apply. For any affine transform,
+ you are now guaranteed to get the same result by transforming the upper
+ coordinate as though you transform the lower coordinate and add (size-1)
+ steps of the increment in source coordinate space. No projective
+ transform routines use the COVER_CLIP flags, so they cannot be affected.
+
+ Proof by Siarhei Siamashka:
+
+ Let's take a look at the following affine transformation matrix (with 16.16
+ fixed point values) and two vectors:
+

```
+         | a   b     c    |
+ M     = | d   e     f    |
+         | 0   0  0x10000 |
+
+         |  x_dst  |
+ P     = |  y_dst  |
+         | 0x10000 |
+
+         | 0x10000 |
+ ONE_X  = |    0    |
+
       |    0    |
```

+
+ The current matrix multiplication code does the following calculations:
+

```
+              | (a * x_dst + b * y_dst + 0x8000) / 0x10000 + c |
+     M * P =  | (d * x_dst + e * y_dst + 0x8000) / 0x10000 + f |
+              |                 0x10000                        |
```

+
+ These calculations are not perfectly exact and we may get rounding
+ because the integer coordinates are adjusted by 0.5 (or 0x8000 in the
+ 16.16 fixed point format) before doing matrix multiplication. For
+ example, if the 'a' coefficient is an odd number and 'b' is zero,
+ then we are losing some of the least significant bits when dividing by
+ 0x10000.
+
+ So we need to strictly prove that the following expression is always
+ true even though we have to deal with rounding:
+

```
+                                  | a |
+     M * (P + ONE_X) - M * P = M * ONE_X = | d |
+                                  | 0 |
```

+

+ or
+
+ ((a * (x_dst + 0x10000) + b * y_dst + 0x8000) / 0x10000 + c)
+ -
+ ((a * x_dst + b * y_dst + 0x8000) / 0x10000 + c)
+ =
+ a
+
+ It's easy to see that this is equivalent to
+
+ a + ((a * x_dst + b * y_dst + 0x8000) / 0x10000 + c)
+ - ((a * x_dst + b * y_dst + 0x8000) / 0x10000 + c)
+ =
+ a
+
+ Which means that stepping exactly by one pixel horizontally in the
+ destination image space (advancing 'x_dst' by 0x10000) is the same as
+ changing the transformed 'x_src' coordinate in the source image space
+ exactly by 'a'. The same applies to the vertical direction too.
+ Repeating these steps, we can reach any pixel in the source image
+ space and get exactly the same fixed point coordinates as doing
+ matrix multiplications per each pixel.
+
+ By the way, the older matrix multiplication implementation, which was
+ relying on less accurate calculations with
three intermediate roundings
+ "((a + 0x8000) >> 16) + ((b + 0x8000) >> 16) + ((c + 0x8000) >> 16)",
+ also has the same properties. However reverting
+ http://cgit.freedesktop.org/pixman/commit/?id=ed39992564beefe6b12f81e842caba11aff98a9c
+ and applying this "Remove the 8e extra safety margin in COVER_CLIP
+ analysis" patch makes the cover test fail. The real reason why it fails
+ is that the old pixman code was using "pixman_transform_point_3d()"
+ function
+ http://cgit.freedesktop.org/pixman/tree/pixman/pixman-matrix.c?id=pixman-0.28.2#n49
+ for getting the transformed coordinate of the top left corner pixel
+ in the image scaling code, but at the same time using a different
+ "pixman_transform_point()" function
+ http://cgit.freedesktop.org/pixman/tree/pixman/pixman-matrix.c?id=pixman-0.28.2#n82
+ in the extents calculation code for setting the cover flag. And these
+ functions did the intermediate rounding differently. That's
why the 8e
+ safety margin was needed.
+
+ ** proof ends
+
+ However, for COVER_CLIP_NEAREST, the actual margins added were not 8e.
+ Because the half-way cases round down, that is, coordinate 0 hits pixel

+ index -1 while coordinate e hits pixel index 0, the extra safety margins
+ were actually 7e to the left and up, and 9e to the right and down. This
+ patch removes the 7e and 9e margins and restores the -e adjustment
+ required for NEAREST sampling in Pixman. For reference, see
+ pixman/rounding.txt.
+
+ For COVER_CLIP_BILINEAR, the margins were exactly 8e as there are no
+ additional offsets to be restored, so simply removing the 8e additions
+ is enough.
+
+ Proof:
+
+ All implementations must give the same numerical results as
+ bits_image_fetch_pixel_nearest() / bits_image_fetch_pixel_bilinear().
+
+ The former does
+ int x0 = pixman_fixed_to_int (x - pixman_fixed_e);
+ which maps directly to the
 new test for the nearest flag, when you consider
+ that x0 must fall in the interval [0,width).
+
+ The latter does
+ x1 = x - pixman_fixed_1 / 2;
+ x1 = pixman_fixed_to_int (x1);
+ x2 = x1 + 1;
+ When you write a COVER path, you take advantage of the assumption that
+ both x1 and x2 fall in the interval [0, width).
+
+ As samplers are allowed to fetch the pixel at x2 unconditionally, we
+ require
+ x1 >= 0
+ x2 < width
+ so
+ x - pixman_fixed_1 / 2 >= 0
+ x - pixman_fixed_1 / 2 + pixman_fixed_1 < width * pixman_fixed_1
+ so
+ pixman_fixed_to_int (x - pixman_fixed_1 / 2) >= 0
+ pixman_fixed_to_int (x + pixman_fixed_1 / 2) < width
+ which matches the source code lines for the bilinear case, once you delete
+ the lines that add the 8e margin.
+
+ Signed-off-by: Ben Avison <bavison@riscosopen.org>
+ [Pekka: adjusted commit message, left affine-bench changes for another patch]
+

 [Pekka: add commit message parts from Siarhei]
+ Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Reviewed-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+ Reviewed-by: Ben Avison <bavison@riscosopen.org>

+
+commit 23525b4ea5bc2dd67f8f65b90d023b6580ecbc36
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Tue Sep 22 12:43:25 2015 +0100
+
+   pixman-general: Tighten up calculation of temporary buffer sizes
+
+   Each of the aligns can only add a maximum of 15 bytes to the space
+   requirement. This permits some edge cases to use the stack buffer where
+   previously it would have deduced that a heap buffer was required.
+
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 8b49d4b6b460d0c9299bca4ccddd7cd00d8f8441
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Tue Sep 22 04:25:40 2015 +0300
+
+   pixman-general: Fix stack related pointer arithmetic overflow
+
+   As https://bugs.freedesktop.org/show_bug.cgi?id=92027#c6
 explains,
+   the stack is allocated at the very top of the process address space
+   in some configurations (32-bit x86 systems with ASLR disabled).
+   And the careless computations done with the 'dest_buffer' pointer
+   may overflow, failing the buffer upper limit check.
+
+   The problem can be reproduced using the 'stress-test' program,
+   which segfaults when executed via setarch:
+
+   export CFLAGS="-O2 -m32" && ./autogen.sh
+   ./configure --disable-libpng --disable-gtk && make
+   setarch i686 -R test/stress-test
+
+   This patch introduces the required corrections. The extra check
+   for negative 'width' may be redundant (the invalid 'width' value
+   is not supposed to reach here), but it's better to play safe
+   when dealing with the buffers allocated on stack.
+
+   Reported-by: Ludovic Courtès <ludo@gnu.org>
+   Signed-off-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+   Reviewed-by: soren.sandmann@gmail.com
+
    Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 4297e9058d252cac653723fe0b1bee559fbac3a4
+Author: Thomas Petazzoni <thomas.petazzoni@free-electrons.com>
+Date: Thu Sep 17 15:43:27 2015 +0200
+

+ test: add a check for FE_DIVBYZERO
+
+ Some architectures, such as Microblaze and Nios2, currently do not
+ implement FE_DIVBYZERO, even though they have <fenv.h> and
+ feenableexcept(). This commit adds a configure.ac check to verify
+ whether FE_DIVBYZERO is defined or not, and if not, disables the
+ problematic code in test/utils.c.
+
+ Signed-off-by: Thomas Petazzoni <thomas.petazzoni@free-electrons.com>
+ Signed-off-by: Marek Vasut <marex@denx.de>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 8189fad9610981d5b4dcd8f8980ff169110fb33c
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Sun Sep 6 11:45:20 2015 +0300
+
+ vmx: Remove unused
expensive functions
+
+ Now that we replaced the expensive functions with better performing
+ alternatives, we should remove them so they will not be used again.
+
+ Running Cairo benchmark on trimmed traces gave the following results:
+
+ POWER8, 8 cores, 3.4GHz, RHEL 7.2 ppc64le.
+
+ Speedups
+ ========
+ t-firefox-scrolling 1232.30 -> 1096.55 : 1.12x
+ t-gnome-terminal-vim 613.86 -> 553.10 : 1.11x
+ t-evolution 405.54 -> 371.02 : 1.09x
+ t-firefox-talos-gfx 919.31 -> 862.27 : 1.07x
+ t-gvim 653.02 -> 616.85 : 1.06x
+ t-firefox-canvas-alpha 941.29 -> 890.42 : 1.06x
+
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 6b1b8b2b90da11bf6101a151786b2a8c9f087338
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Sun Jun 28 13:17:41
2015 +0300
+
+ vmx: implement fast path vmx_composite_over_n_8_8888
+
+ POWER8, 8 cores, 3.4GHz, RHEL 7.2 ppc64le.

```
+
+    reference memcpy speed = 25008.9MB/s (6252.2MP/s for 32bpp fills)
+
+                Before        After         Change
+               ---------------------------------------------
+    L1           91.32         182.84        +100.22%
+    L2           94.94         182.83        +92.57%
+    M            95.55         181.51        +89.96%
+    HT           88.96          162.09        +82.21%
+    VT           87.4          168.35        +92.62%
+    R           83.37         146.23        +75.40%
+    RT           66.4          91.5         +37.80%
+    Kops/s        683           859          +25.77%
+
+    Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+    Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+    Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit
 8d8caa55a38c00351047d24322e23b201b6b29ff
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date:   Sun Sep 6 11:46:15 2015 +0300
+
+    vmx: optimize vmx_composite_over_n_8888_8888_ca
+
+    This patch optimizes vmx_composite_over_n_8888_8888_ca by removing use
+    of expand_alpha_1x128, unpack/pack and in_over_2x128 in favor of
+    splat_alpha, in_over and MUL/ADD macros from pixman_combine32.h.
+
+    Running "lowlevel-blt-bench -n over_8888_8888" on POWER8, 8 cores,
+    3.4GHz, RHEL 7.2 ppc64le gave the following results:
+
+    reference memcpy speed = 23475.4MB/s (5868.8MP/s for 32bpp fills)
+
+                Before        After         Change
+               ---------------------------------------------
+    L1           244.97        474.05        +93.51%
+    L2           243.74        473.05        +94.08%
+    M            243.29        467.16        +92.02%
+    HT           144.03         252.79        +75.51%
+    VT
         174.24         279.03        +60.14%
+    R           109.86        149.98        +36.52%
+    RT           47.96         53.18        +10.88%
+    Kops/s        524           576          +9.92%
+
+    Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+    Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
```

+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 857880f0e4d1d42a8508ac77be33556cc6f7f546
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Sun Sep 6 10:58:30 2015 +0300
+
+ vmx: optimize scaled_nearest_scanline_vmx_8888_8888_OVER
+
+ This patch optimizes scaled_nearest_scanline_vmx_8888_8888_OVER and all
+ the functions it calls (combine1, combine4 and
+ core_combine_over_u_pixel_vmx).
+
+ The optimization is done by removing use of expand_alpha_1x128 and
+ expand_alpha_2x128 in favor of splat_alpha and MUL/ADD macros from
+ pixman_combine32.h.
+
+ Running "lowlevel-blt-bench
 -n over_8888_8888" on POWER8, 8 cores,
+ 3.4GHz, RHEL 7.2 ppc64le gave the following results:
+
+ reference memcpy speed = 24847.3MB/s (6211.8MP/s for 32bpp fills)
+
+ Before After Change
+ ---
+ L1 182.05 210.22 +15.47%
+ L2 180.6 208.92 +15.68%
+ M 180.52 208.22 +15.34%
+ HT 130.17 178.97 +37.49%
+ VT 145.82 184.22 +26.33%
+ R 104.51 129.38 +23.80%
+ RT 48.3 61.54 +27.41%
+ Kops/s 430 504 +17.21%
+
+ v2: Check *pm is not NULL before dereferencing it in combine1()
+
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Acked-by:
 Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 73e586efb3ee149f76f15d9e549bffa15d8e30ec
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Mon Sep 7 14:40:49 2015 +0300
+
+ armv6: enable over_n_8888
+
+ Enable the fast path added in the previous patch by moving the lookup
+ table entries to their proper locations.

+
+ Lowlevel-blt-bench benchmark statistics with 30 iterations, showing the
+ effect of adding this one patch on top of
+ "armv6: Add over_n_8888 fast path (disabled)", which was applied on
+ fd595692941f3d9ddea8934462bd1d18aed07c65.
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 12.5 0.04 45.2 0.10 100.00% +263.1%
+ L2 11.1 0.02 43.2 0.03 100.00% +289.3%
+ M 9.4 0.00 42.4 0.02 100.00% +351.7%
+ HT 8.5 0.02 25.4 0.10 100.00% +198.8%
+ VT 8.4 0.02 22.3 0.07 100.00%
+167.0%
+ R 8.2 0.02 23.1 0.09 100.00% +183.6%
+ RT 5.4 0.05 11.4 0.21 100.00% +110.3%
+
+ At most 3 outliers rejected per test per set.
+
+ Iterating here means that lowlevel-blt-bench was executed 30 times, and
+ the statistics above were computed from the output.
+
+ Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 9eb6889b15a180cc94aad8ac97189af5b3a68b96
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Mon Sep 7 14:40:48 2015 +0300
+
+ armv6: Add over_n_8888 fast path (disabled)
+
+ This new fast path is initially disabled by putting the entries in the
+ lookup table after the sentinel. The compiler cannot tell the new code
+ is not used, so it cannot eliminate the code. Also the lookup table size
+ will include the new fast path. When the follow-up patch then enables
+ the new fast path, the binary layout (alignments, size, etc.) will stay
+ the same compared
to the disabled case.
+
+ Keeping the binary layout identical is important for benchmarking on
+ Raspberry Pi 1. The addresses at which functions are loaded will have a
+ significant impact on benchmark results, causing unexpected performance
+ changes. Keeping all function addresses the same across the patch
+ enabling a new fast path improves the reliability of benchmarks.
+
+ Benchmark results are included in the patch enabling this fast path.
+
+ [Pekka: disabled the fast path, commit message]
+ Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

```
+
+commit 4c71f595e3393be5b922df37d50d71dd83f4f979
+Author: Ben Avison <bavison@riscosopen.org>
+Date:   Wed Sep 2 20:35:59 2015 +0100
+
+    test: Add cover-test v5
+
+    This test aims to verify both numerical correctness and the honouring of
+    array bounds for scaled plots (both nearest-neighbour and bilinear) at or
+    close to the boundary conditions for applicability of "cover"
 type fast paths
+    and iter fetch routines.
+
+    It has a secondary purpose: by setting the env var EXACT (to any value) it
+    will only test plots that are exactly on the boundary condition. This makes
+    it possible to ensure that "cover" routines are being used to the maximum,
+    although this requires the use of a debugger or code instrumentation to
+    verify.
+
+    Changes in v4:
+
+     Check the fence page size and skip the test if it is too large. Since
+     we need to deal with pixman_fixed_t coordinates that go beyond the
+     real image width, make the page size limit 16 kB. A 32 kB or larger
+     page size would cause an a8 image width to be 32k or more, which is no
+     longer representable in pixman_fixed_t.
+
+     Use a shorthand variable 'filter' in test_cover().
+
+     Whitespace adjustments.
+
+    Changes in v5:
+
+     Skip if fenced memory is not supported. Do you know of any such
+     platform?
+
+
 Signed-off-by: Ben Avison <bavison@riscosopen.org>
+    [Pekka: changes in v4 and v5]
+    Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+    Reviewed-by: Ben Avison <bavison@riscosopen.org>
+    Acked-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 812c9c9758e1503bd1725af9c6fe9ede6a467506
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date:   Tue Sep 8 13:35:33 2015 +0300
+
+    implementation: add PIXMAN_DISABLE=wholeops
```

+
+   Add a new option to PIXMAN_DISABLE: "wholeops". This option disables all
+   whole-operation fast paths regardless of implementation level, except
+   the general path (general_composite_rect).
+
+   The purpose is to add a debug option that allows us to test optimized
+   iterator paths specifically. With this, it is possible to see if:
+   - fast paths mask bugs in iterators
+   - compare fast paths with iterator paths for performance
+
+   The effect was tested on x86_64 by running:
+ $ PIXMAN_DISABLE=" ./test/lowlevel-blt-bench
 over_8888_8888
+ $ PIXMAN_DISABLE='wholeops' ./test/lowlevel-blt-bench over_8888_8888
+
+   In the first case time is spent in sse2_composite_over_8888_8888(), and
+   in the latter in sse2_combine_over_u().
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit e9ef2cc4dea04792a03d604c075c344055765217
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Tue Sep 8 09:36:48 2015 +0300
+
+   utils.[ch]: add fence_get_page_size()
+
+   Add a function to get the page size used for memory fence purposes, and
+   use it everywhere where getpagesize() was used.
+
+   This offers a single point in code to override the page size, in case
+   one wants to experiment how the tests work with a higher page size than
+   what the developer's machine has.
+
+   This also offers a clean API, without adding #ifdefs, to tests for
+   checking the page size.
+

+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 82f8c997dfd3f60a48134107ecf38663b464bdc9
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Tue Sep 8 09:20:46 2015 +0300
+
+   utils.c: fix fallback code for fence_image_create_bits()
+

+ Used a wrong variable name, causing:
+ /home/pq/git/pixman/demos/../test/utils.c: In function ‘fence_image_create_bits’:
+ /home/pq/git/pixman/demos/../test/utils.c:562:46: error: ‘width’ undeclared (first use in this function)
+
+ Use the correct variable.
+
+ Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Reviewed-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 07006853828a59b5e0cd7d7d058d03db4e23e6ec
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Thu May 7 17:16:05 2015
 +0300
+
+ test: add fence-image-self-test
+
+ Tests that fence_malloc and fence_image_create_bits actually work: that
+ out-of-bounds and out-of-row (unused stride area) accesses trigger
+ SIGSEGV.
+
+ If fence_malloc is a dummy (FENCE_MALLOC_ACTIVE not defined), this test
+ is skipped.
+
+ Changes in v2:
+
+ - check FENCE_MALLOC_ACTIVE value, not whether it is defined
+ - test that reading bytes near the fence pages does not cause a
+   segmentation fault
+
+ Changes in v3:
+
+ - Do not print progress messages unless VERBOSE environment variable is
+   set. Avoid spamming the terminal output of 'make check' on some
+   versions of autotools.
+
+ Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 13d93aa12050ce99643d56b0c730404294f46c2f
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Thu May 7 16:46:01 2015 +0300
+
+ utils.[ch]:
 add fence_image_create_bits ()
+
+ Useful for detecting out-of-bounds accesses in composite operations.
+

+   This will be used by follow-up patches adding new tests.
+
+   Changes in v2:
+
+   - fix style on fence_image_create_bits args
+   - add page to stride only if stride_fence
+   - add comment on the fallback definition about freeing storage
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit c70ddd5c9e12d87ff461d73a6f53b00d52925cf5
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Thu May 7 14:21:30 2015 +0300
+
+   utils.[ch]: add FENCE_MALLOC_ACTIVE
+
+   Define a new token to simplify checking whether fence_malloc() actually
+   can catch out-of-bounds access.
+
+   This will be used in the future to skip tests that rely on fence_malloc
+   checking functionality.
+
+   Changes in v2:
+
+   - #define FENCE_MALLOC_ACTIVE
 always, but change its value to help catch
+   use of it without including utils.h
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit a82e519944e5d1af41cc94a14d9ae1fe0e430e68
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu Aug 20 13:07:48 2015 +0100
+
+   scaling-test: list more details when verbose
+
+   Add mask details to the output.
+
+   [Pekka: redo whitespace and print src,dst,mask x and y.]
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit fd595692941f3d9ddea8934462bd1d18aed07c65
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Tue Jul 7 11:31:20 2015 +0300
+

+   lowlevel-blt-bench: make extra arguments an error
+
+   If a user gives multiple patterns or extra arguments, only the last one
+   was used as the pattern while the former were just ignored. This is a
+
    user error silently converted to something possibly unexpected.
+
+   In presence of extra arguments, complain and quit.
+
+   Cc: Ben Avison <bavison@riscosopen.org>
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 69611473c5a4e7cc2e6016d82ff4ed28e289484a
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Sat Aug 1 23:01:43 2015 +0300
+
+   Post-release version bump to 0.33.3
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit ee790044b08e3b668e6aa5d9229f46ed7295ebf0
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Sat Aug 1 22:34:53 2015 +0300
+
+   Pre-release version bump to 0.33.2
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit 8d9be3619a906855a3e3a1e052317833cb24cabe
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Wed Jul 1 14:34:07 2015 +0300
+
+   vmx: implement fast path iterator vmx_fetch_a8
+
+   no changes were observed when running cairo trimmed benchmarks.
+
+
    Running "lowlevel-blt-bench src_8_8888" on POWER8, 8 cores,
+   3.4GHz, RHEL 7.1 ppc64le gave the following results:
+
+   reference memcpy speed = 25197.2MB/s (6299.3MP/s for 32bpp fills)
+
+   Before   After   Change
+   ---
+   L1   965.34   3936   +307.73%
+   L2   942.99   3436.29   +264.40%
+   M   902.24   2757.77   +205.66%
+   HT   448.46   784.99   +75.04%

+ VT 430.05 819.78 +90.62%
+ R 412.9 717.04 +73.66%
+ RT 168.93 220.63 +30.60%
+ Kops/s 1025 1303 +27.12%
+
+ It was benchmarked against commid id e2d211a from pixman/master
+
+ Siarhei Siamashka reported that on playstation3, it shows the following
+ results:
+
+ == before
==
+
+ src_8_8888 = L1: 194.37 L2: 198.46 M:155.90 (148.35%)
+ HT: 59.18 VT: 36.71 R: 38.93 RT: 12.79 (106Kops/s)
+
+ == after ==
+
+ src_8_8888 = L1: 373.96 L2: 391.10 M:245.81 (233.88%)
+ HT: 80.81 VT: 44.33 R: 48.10 RT: 14.79 (122Kops/s)
+
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 47f74ca94637d79ee66c37a81eea0200e453fcc1
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Mon Jun 29 15:31:02 2015 +0300
+
+ vmx: implement fast path iterator vmx_fetch_x8r8g8b8
+
+ It was benchmarked against commid id 2be523b from pixman/master
+
+ POWER8, 8 cores, 3.4GHz, RHEL 7.1 ppc64le.
+
+ cairo trimmed benchmarks :
+
+ Speedups
+ ========
+ t-firefox-asteroids 533.92 -> 489.94 : 1.09x
+
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Siarhei
Siamashka <siarhei.siamashka@gmail.com>
+
+commit fcbb97d4458d717b9c15858aedcbee2d33c8ac5a
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Sun Jun 28 23:25:24 2015 +0300
+

+ vmx: implement fast path scaled nearest vmx_8888_8888_OVER
+
+ It was benchmarked against commid id 2be523b from pixman/master
+
+ POWER8, 8 cores, 3.4GHz, RHEL 7.1 ppc64le.
+ reference memcpy speed = 24764.8MB/s (6191.2MP/s for 32bpp fills)
+
+ Before After Change
+ ---
+ L1 134.36 181.68 +35.22%
+ L2 135.07 180.67 +33.76%
+ M 134.6 180.51 +34.11%
+ HT 121.77 128.79 +5.76%
+ VT 120.49 145.07 +20.40%
+ R 93.83 102.3 +9.03%
+ RT 50.82 46.93 -7.65%
+
Kops/s 448 422 -5.80%
+
+ cairo trimmed benchmarks :
+
+ Speedups
+ ========
+ t-firefox-asteroids 533.92 -> 497.92 : 1.07x
+ t-midori-zoomed 692.98 -> 651.24 : 1.06x
+
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit ad612c4205f0ae46fc72a50e0c90ccd05487fcba
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Sun Jun 28 22:23:44 2015 +0300
+
+ vmx: implement fast path vmx_composite_src_x888_8888
+
+ It was benchmarked against commid id 2be523b from pixman/master
+
+ POWER8, 8 cores, 3.4GHz, RHEL 7.1 ppc64le.
+ reference memcpy speed = 24764.8MB/s (6191.2MP/s for 32bpp fills)
+
+ Before After Change
+ ---
+ L1 1115.4 5006.49 +348.85%
+ L2 1112.26 4338.01
+290.02%
+ M 1110.54 2524.15 +127.29%
+ HT 745.41 1140.03 +52.94%
+ VT 749.03 1287.13 +71.84%

```
+   R            423.91        547.6         +29.18%
+   RT           205.79        194.98        -5.25%
+   Kops/s       1414          1361          -3.75%
+
+   cairo trimmed benchmarks :
+
+   Speedups
+   ========
+   t-gnome-system-monitor  1402.62  -> 1212.75 :  1.16x
+     t-firefox-asteroids   533.92  ->  474.50 :  1.13x
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+   Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit fafc1d403b8405727d3918bcb605cb98044af90a
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date:   Sun Jun 28 10:14:20 2015 +0300
+
+   vmx: implement fast path vmx_composite_over_n_8888_8888_ca
+
+   It was benchmarked against commid id 2be523b from pixman/master
+
+   POWER8, 8 cores, 3.4GHz,
 RHEL 7.1 ppc64le.
+
+   reference memcpy speed = 24764.8MB/s (6191.2MP/s for 32bpp fills)
+
+              Before          After         Change
+            ---------------------------------------------
+   L1           61.92          244.91        +295.53%
+   L2           62.74          243.3         +287.79%
+   M            63.03          241.94        +283.85%
+   HT           59.91          144.22        +140.73%
+   VT           59.4           174.39        +193.59%
+   R            53.6           111.37        +107.78%
+   RT           37.99          46.38         +22.08%
+   Kops/s       436            506           +16.06%
+
+   cairo trimmed benchmarks :
+
+   Speedups
+   ========
+   t-xfce4-terminal-a1  1540.37 -> 1226.14 :  1.26x
+   t-firefox-talos-gfx  1488.59 -> 1209.19 :  1.23x
+
+   Slowdowns
+   =========
+         t-evolution  553.88  -> 581.63  :  1.05x
```

```
+
          t-poppler  364.99  -> 383.79  :  1.05x
+   t-firefox-scrolling  1223.65 -> 1304.34 :  1.07x
+
+   The slowdowns can be explained in cases where the images are small and
+   un-aligned to 16-byte boundary. In that case, the function will first
+   work on the un-aligned area, even in operations of 1 byte. In case of
+   small images, the overhead of such operations can be more than the
+   savings we get from using the vmx instructions that are done on the
+   aligned part of the image.
+
+   In the C fast-path implementation, there is no special treatment for the
+   un-aligned part, as it works in 4 byte quantities on the entire image.
+
+   Because llbb is a synthetic test, I would assume it has much less
+   alignment issues than "real-world" scenario, such as cairo benchmarks,
+   which are basically recorded traces of real application activity.
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+   Acked-by: Siarhei Siamashka
 <siarhei.siamashka@gmail.com>
+
+commit a3e914407e354df70b9200e263608f1fc2e686cf
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date:   Thu Jun 18 15:05:49 2015 +0300
+
+   vmx: implement fast path composite_add_8888_8888
+
+   Copied impl. from sse2 file and edited to use vmx functions
+
+   It was benchmarked against commid id 2be523b from pixman/master
+
+   POWER8, 16 cores, 3.4GHz, ppc64le :
+
+   reference memcpy speed = 27036.4MB/s (6759.1MP/s for 32bpp fills)
+
+               Before          After          Change
+             ---------------------------------------------
+   L1          248.76          3284.48        +1220.34%
+   L2          264.09          2826.47        +970.27%
+   M           261.24          2405.06        +820.63%
+   HT          217.27          857.3          +294.58%
+   VT          213.78          980.09         +358.46%
+   R           176.61          442.95         +150.81%
+
  RT           107.54          150.08         +39.56%
+   Kops/s        917             1125           +22.68%
+
```

+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit d5b5343c7df99082597e0c37aec937dcf5b6602d
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Thu Jun 18 14:56:47 2015 +0300
+
+ vmx: implement fast path composite_add_8_8
+
+ Copied impl. from sse2 file and edited to use vmx functions
+
+ It was benchmarked against commid id 2be523b from pixman/master
+
+ POWER8, 16 cores, 3.4GHz, ppc64le :
+
+ reference memcpy speed = 27036.4MB/s (6759.1MP/s for 32bpp fills)
+
+ Before After Change
+ ---
+ L1 687.63 9140.84 +1229.33%
+ L2 715 7495.78 +948.36%
+ M 717.39 8460.14
+1079.29%
+ HT 569.56 1020.12 +79.11%
+ VT 520.3 1215.56 +133.63%
+ R 514.81 874.35 +69.84%
+ RT 341.28 305.42 -10.51%
+ Kops/s 1621 1579 -2.59%
+
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 339eeaf095f949694d7f79a45171ac03a3b06f90
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Thu Jun 18 14:12:05 2015 +0300
+
+ vmx: implement fast path composite_over_8888_8888
+
+ Copied impl. from sse2 file and edited to use vmx functions
+
+ It was benchmarked against commid id 2be523b from pixman/master
+
+ POWER8, 16 cores, 3.4GHz, ppc64le :
+
+ reference memcpy speed = 27036.4MB/s (6759.1MP/s for 32bpp fills)
+
+ Before After Change
+ ---

```
+
   L1          129.47       1054.62       +714.57%
+  L2           138.31       1011.02       +630.98%
+  M            139.99       1008.65       +620.52%
+  HT           122.11       468.45        +283.63%
+  VT           121.06       532.21        +339.62%
+  R            108.48       240.5         +121.70%
+  RT           77.87        116.7         +49.87%
+  Kops/s       758          981           +29.42%
+
+  Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+  Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 0cc8a2e9714efcb7cdd7e2a94c9cba49c3e29e00
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date:   Sun Jun 28 09:42:19 2015 +0300
+
+  vmx: implement fast path vmx_fill
+
+  Based on sse2 impl.
+
+  It was benchmarked against commid id e2d211a from pixman/master
+
+  Tested cairo trimmed benchmarks on POWER8,
 8 cores, 3.4GHz,
+  RHEL 7.1 ppc64le :
+
+  speedups
+  ========
+       t-swfdec-giant-steps  1383.09 ->  718.63 :  1.92x speedup
+     t-gnome-system-monitor  1403.53 ->  918.77 :  1.53x speedup
+              t-evolution  552.34  ->  415.24 :  1.33x speedup
+       t-xfce4-terminal-a1  1573.97 ->  1351.46 :  1.16x speedup
+       t-firefox-paintball  847.87  ->  734.50 :  1.15x speedup
+       t-firefox-asteroids  565.99  ->  492.77 :  1.15x speedup
+  t-firefox-canvas-swscroll  1656.87 ->  1447.48 :  1.14x speedup
+           t-midori-zoomed  724.73  ->  642.16 :  1.13x speedup
+     t-firefox-planet-gnome  975.78  ->  911.92 :  1.07x speedup
+           t-chromium-tabs  292.12  ->  274.74 :  1.06x speedup
+       t-firefox-chalkboard  690.78  ->  653.93 :  1.06x speedup
+       t-firefox-talos-gfx  1375.30 ->  1303.74 :  1.05x speedup
+     t-firefox-canvas-alpha  1016.79 ->  967.24 :  1.05x speedup
+
+  Signed-off-by: Oded
 Gabbay <oded.gabbay@gmail.com>
+  Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit c12ee95089e7d281a29a24bf56b81f5c16dec6ee
```

```
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date:   Sun Jun 28 09:42:08 2015 +0300
+
+    vmx: add helper functions
+
+    This patch adds the following helper functions for reuse of code,
+    hiding BE/LE differences and maintainability.
+
+    All of the functions were defined as static force_inline.
+
+    Names were copied from pixman-sse2.c so conversion of fast-paths between
+    sse2 and vmx would be easier from now on. Therefore, I tried to keep the
+    input/output of the functions to be as close as possible to the sse2
+    definitions.
+
+    The functions are:
+
+    - load_128_aligned      : load 128-bit from a 16-byte aligned memory
+                              address into a vector
+
+    - load_128_unaligned    : load 128-bit from memory into a vector,
+                              without
 guarantee of alignment for the
+                              source pointer
+
+    - save_128_aligned      : save 128-bit vector into a 16-byte aligned
+                              memory address
+
+    - create_mask_16_128    : take a 16-bit value and fill with it
+                              a new vector
+
+    - create_mask_1x32_128  : take a 32-bit pointer and fill a new
+                              vector with the 32-bit value from that pointer
+
+    - create_mask_32_128    : take a 32-bit value and fill with it
+                              a new vector
+
+    - unpack_32_1x128       : unpack 32-bit value into a vector
+
+    - unpacklo_128_16x8     : unpack the eight low 8-bit values of a vector
+
+    - unpackhi_128_16x8     : unpack the eight high 8-bit values of a vector
+
+    - unpacklo_128_8x16     : unpack the four low 16-bit values of a vector
+
+    - unpackhi_128_8x16     : unpack the four high 16-bit values of
 a vector
+
```

```
+ - unpack_128_2x128       : unpack the eight low 8-bit values of a vector
+                           into one vector and the eight high 8-bit
+                           values into another vector
+
+ - unpack_128_2x128_16    : unpack the four low 16-bit values of a vector
+                           into one vector and the four high 16-bit
+                           values into another vector
+
+ - unpack_565_to_8888     : unpack an RGB_565 vector to 8888 vector
+
+ - pack_1x128_32          : pack a vector and return the LSB 32-bit of it
+
+ - pack_2x128_128         : pack two vectors into one and return it
+
+ - negate_2x128           : xor two vectors with mask_00ff (separately)
+
+ - is_opaque              : returns whether all the pixels contained in
+                           the vector are opaque
+
+ - is_zero                : returns whether the vector equals 0
+
+ - is_transparent
    : returns whether all the pixels
+                           contained in the vector are transparent
+
+ - expand_pixel_8_1x128   : expand an 8-bit pixel into lower 8 bytes of a
+                           vector
+
+ - expand_alpha_1x128     : expand alpha from vector and return the new
+                           vector
+
+ - expand_alpha_2x128     : expand alpha from one vector and another alpha
+                           from a second vector
+
+ - expand_alpha_rev_2x128 : expand a reversed alpha from one vector and
+                           another reversed alpha from a second vector
+
+ - pix_multiply_2x128     : do pix_multiply for two vectors (separately)
+
+ - over_2x128             : perform over op. on two vectors
+
+ - in_over_2x128          : perform in-over op. on two vectors
+
+ v2: removed expand_pixel_32_1x128 as it was not used by any function and
+ its implementation was erroneous
+

+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
```

+   Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 034149537be94862b43fb09699b8c2149bfe948d
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Thu Jul 2 11:04:20 2015 +0300
+
+   vmx: add LOAD_VECTOR macro
+
+   This patch adds a macro for loading a single vector.
+   It also make the other LOAD_VECTORx macros use this macro as a base so
+   code would be re-used.
+
+   In addition, I fixed minor coding style issues.
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+   Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 744134025609a0a5805c2d3b4d34856eb75cb711
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Fri Jun 27 18:05:39 2014 +0200
+
+   MIPS: update author's e-mail address
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+
+commit e2d211ac491cd9884aae7ccaf18e5b3042469cf2
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date:
  Wed Jun 10 13:54:01 2015 +0300
+
+   lowlevel-blt-bench: add option to skip memcpy measurement
+
+   The memcpy speed measurement takes several seconds. When you are running
+   single tests in a harness that iterates dozens or hundreds of times, the
+   repeated measurements are redundant and take a lot of time. It is also
+   an open question whether the measured speed changes over long test runs
+   due to unidentified platform reasons (Raspberry Pi).
+
+   Add a command line option to set the reference memcpy speed, skipping
+   the measuring.
+
+   The speed is mainly used to compute how many iterations do run inside
+   the bench_*() functions, so for repeated testing on the same hardware,
+   it makes sense to lock that number to a constant.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+

+commit 31cb0d4267f4f358b62f75fd42c4b1ae625be7ee
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date:
  Wed Jun 10 13:20:47 2015 +0300
+
+   lowlevel-blt-bench: add CSV output mode
+
+   Add a command line option for choosing CSV output mode.
+
+   In CSV mode, only the results in Mpixels/s are printed in an easily
+   machine-parseable format. All user-friendly printing is suppressed.
+
+   This is intended for cases where you benchmark one particular operation
+   at a time. Running the "all" set of benchmarks will print just fine, but
+   you may have trouble matching rows to operations as you have to look at
+   the tests_tbl[] to see what row is which.
+
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+   v2: don't add a space after comma in CSV.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 9a7e0bc6d08c0324f09d6440270cd07201929f3f
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Wed Jun 10 12:41:57 2015 +0300
+
+   lowlevel-blt-bench: refactor to Mpx_per_sec()
+

+   Refactor the Mpixels/s computations into a function. Easier to read and
+   better documents what is being computed.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 6e9c48c579e3325506234fa2ee7635f08f2c5a33
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Wed Jun 10 12:53:09 2015 +0300
+
+   lowlevel-blt-bench: all bench funcs to return pix_cnt
+
+   The bench_* functions, that did not already do it, are modified to
+   return the number of pixels processed during the benchmark. This moves
+   the computation to the site that actually determines the number, and
+   simplifies bench_composite() a bit.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 9e8f2bcaf5fabd3729ee0ecc90009fd6cea9e8e9
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Wed Jun 10
 12:02:17 2015 +0300
+
+   lowlevel-blt-bench: move speed and scaling printing
+
+   Move the printing of the memory speed and scaling mode into a new
+   function. This will help with implementing a machine-readable output
+   option.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit a33c2e6853fe0a76da42a43ed7ed9095e2dbe6a2
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Wed Jun 10 11:56:39 2015 +0300
+
+   lowlevel-blt-bench: print single pattern details
+
+   When given just a single test pattern instead of "all", print the test
+   details. This can be used to verify the pattern parser agrees with the
+   user, just like scaling settings are printed.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 3ac7ae201758fe99627fdb2adf783be4063a9b1f
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date:
   Wed Jun 10 11:34:45 2015 +0300
+
+   lowlevel-blt-bench: make test_entry::testname const
+
+   We assign string literals to it, so it better be const.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 56d8b365f5944bf78a427ac65c5a0d0311e0da5e
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Wed Jun 10 11:21:14 2015 +0300
+
+   lowlevel-blt-bench: move explanation printing
+
+   Move explanation printing to a new function. This will help with

+   implementing a machine-readable output option.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit bddff993ed734f4b9030c1960bcb3ebe1caca807
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Wed Jun 10 11:14:38 2015 +0300
+
+   lowlevel-blt-bench: move usage to a function
+
+   Move printing of
 usage into a new function and use argv[0] as the
+   program name. This will help printing usage from multiple places.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 2be523b20402b7c9f548ac33b8c0f0ed00156c64
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Thu Jun 25 15:59:57 2015 +0300
+
+   vmx: fix pix_multiply for ppc64le
+
+   vec_mergeh/l operates differently for BE and LE, because of the order of
+   the vector elements (l->r in BE and r->l in LE).
+   To fix that, we simply need to swap between the input parameters, in case
+   we are working in LE.
+
+   v2:
+
+   - replace _LITTLE_ENDIAN with WORDS_BIGENDIAN for consistency
+   - fixed whitespaces and indentation issues
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+   Reviewed-by: Adam Jackson <ajax@redhat.com>
+   Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 8d379ad88e208bed9697065f6911c9ef83d85276
+Author:
 Oded Gabbay <oded.gabbay@gmail.com>
+Date: Thu Jun 25 15:59:56 2015 +0300
+
+   vmx: fix unused var warnings
+
+   v2: don't put ';' at the end of macro definition. Instead, move it to
+   each line the macro is used.
+

+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Reviewed-by: Adam Jackson <ajax@redhat.com>
+ Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit ff66a4a3ce95f2adcbf30b354eac60944596d6a2
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Thu Jun 25 15:59:55 2015 +0300
+
+ vmx: encapsulate the temporary variables inside the macros
+
+ v2: fixed whitespaces and indentation issues
+
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Reviewed-by: Adam Jackson <ajax@redhat.com>
+ Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit f6a26d09257dde9cd41144120543c8b754de515f
+Author: Fernando Seiti Furusato <ferseiti@linux.vnet.ibm.com>
+Date: Thu
Jun 25 15:59:54 2015 +0300
+
+ vmx: adjust macros when loading vectors on ppc64le
+
+ Replaced usage of vec_lvsl to direct unaligned assignment
+ operation (=). That is because, according to Power ABI Specification,
+ the usage of lvsl is deprecated on ppc64le.
+
+ Changed COMPUTE_SHIFT_{MASK,MASKS,MASKC} macro usage to no-op for powerpc
+ little endian since unaligned access is supported on ppc64le.
+
+ v2:
+
+ - replace _LITTLE_ENDIAN with WORDS_BIGENDIAN for consistency
+ - fixed whitespaces and indentation issues
+
+ Signed-off-by: Fernando Seiti Furusato <ferseiti@linux.vnet.ibm.com>
+ Reviewed-by: Adam Jackson <ajax@redhat.com>
+ Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+ Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit b3a61703f41c6b34ba2ec9736030e1df04f53ab4
+Author: Oded Gabbay <oded.gabbay@gmail.com>
+Date: Thu Jun 25 15:59:53 2015 +0300
+
+ vmx: fix splat_alpha for ppc64le
+
+

    The permutation vector isn't correct for LE, so correct its values
+   in case we are in LE mode.
+
+   v2:
+
+   - replace _LITTLE_ENDIAN with WORDS_BIGENDIAN for consistency
+   - change #ifndef to #ifdef for readability
+
+   Signed-off-by: Oded Gabbay <oded.gabbay@gmail.com>
+   Reviewed-by: Adam Jackson <ajax@redhat.com>
+   Acked-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit eebc1b78200aff075dbcae9c8d00edad1f830d91
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Tue May 26 23:58:29 2015 +0100
+
+   mmx/sse2: Use SIMPLE_NEAREST_SOLID_MASK_FAST_PATH for NORMAL repeat
+
+   These two architectures were the only place where
+   SIMPLE_NEAREST_SOLID_MASK_FAST_PATH was used, and in both cases the
+   equivalent SIMPLE_NEAREST_SOLID_MASK_FAST_PATH_NORMAL macro was used
+   immediately afterwards, so including the NORMAL case in the main macro
+   simplifies the fast path table.
+
+   [Pekka: removed extra comma from the end of
+
    SIMPLE_NEAREST_SOLID_MASK_FAST_PATH]
+
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 7f6692807902b840b81f860fb2196d2fb242d977
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Tue May 26 23:58:28 2015 +0100
+
+   mmx/sse2: Use SIMPLE_NEAREST_FAST_PATH macro
+
+   There is some reordering, but the only significant thing to ensure that
+   the same routine is chosen is that a COVER fast path for a given
+   combination of operator and source/destination pixel formats must
+   precede all the variants of repeated fast paths for the same
+   combination. This patch (and the other mmx/sse2 one) still follows that
+   rule.
+
+   I believe that in every other case, the set of operations that match any
+   pair of fast paths that are reordered in these patches are mutually
+   exclusive. While there will be a very subtle timing difference due to
+   the distance through

the table we have to search to find a match
+ (sometimes faster, sometime slower) there is no evidence that the tables
+ have been carefully ordered by frequency of occurrence - just for ease
+ of copy-and-pasting.
+
+ Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit dee5000abbf74d55cefe00243e5a9fff630c16cb
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Tue May 26 23:58:27 2015 +0100
+
+ mips: Retire PIXMAN_MIPS_SIMPLE_NEAREST_A8_MASK_FAST_PATH
+
+ This macro does exactly the same thing as the platform-neutral macro
+ SIMPLE_NEAREST_A8_MASK_FAST_PATH.
+
+ Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 4c70d18acc3a2e20f47a71d9174de9d99244d468
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Tue May 26 23:58:26 2015 +0100
+
+ arm: Simplify PIXMAN_ARM_SIMPLE_NEAREST_A8_MASK_FAST_PATH
+

+ This macro is a superset of the platform-neutral macro
+ SIMPLE_NEAREST_A8_MASK_FAST_PATH. In other words, in addition to the
+ _COVER, _NONE and _PAD suffixes, its expansion includes the _NORMAL suffix.
+
+ Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit de255e6a5e3a1364d241d1b23173279c92a9bbe5
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed May 27 12:45:25 2015 +0100
+
+ arm: Retire PIXMAN_ARM_SIMPLE_NEAREST_FAST_PATH
+
+ This macro does exactly the same thing as the platform-neutral macro
+ SIMPLE_NEAREST_FAST_PATH.
+
+ Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+
+commit 62a772f2ea9ec14b0240c0cc62e174ffa98ee2cc
+Author: Ben Avison <bavison@riscosopen.org>

+Date: Fri May 29 16:20:43 2015 +0100
+
+   test: Fix solid-test for big-endian targets
+

+   When generating test data, we need to make sure the interpretation of
+   the data is the same regardless of endianess. That is, the pixel value
+   for each channel is the same on both little and big-endians.
+
+   This fixes a test failure on ppc64 (big-endian).
+
+   Tested-by: Fernando Seiti Furusato <ferseiti@linux.vnet.ibm.com> (ppc64le, ppc64, powerpc)
+   Tested-by: Ben Avison <bavison@riscosopen.org> (armv6l, armv7l, i686)
+   [Pekka: added commit message]
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Tested-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk> (x86_64)
+
+commit 82f9b4faaf1aa63ec26b0dfd227f1a8e5e139ae2
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu May 7 19:32:46 2015 +0100
+
+   test: Add new fuzz tester targeting solid images
+
+   This places a heavier emphasis on solid images than the other fuzz testers,
+   and tests both single-pixel repeating bitmap images as well as those created
+   using
 pixman_image_create_solid_fill(). In the former case, it also
+   exercises the case where the bitmap contents are written to after the
+   image's first use, which is not a use-case that any other test has
+   previously covered.
+
+   [Pekka: added the default case to the switch in test_solid ().]
+
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit cf086d4949092861dc3729465a3881d229cc1060
+Author: James Cowgill <james410@cowgill.org.uk>
+Date: Tue May 5 16:39:38 2015 +0100
+
+   MIPS: Drop #ifdef __ELF__ in definition of LEAF_MIPS32R2
+
+   Commit 6d2cf40166d8 ("MIPS: Fix exported symbols in public API") attempted to
+   add a .hidden assembly directive, conditional on the code being compiled for an
+   ELF target. Unfortunately the #ifdef added was already inside a macro and
+   wasn't expanded properly by the preprocessor.
+
+   Fix by removing the check. It's unlikely there are many non-ELF MIPS systems
+   around anyway.

+

+   Fixes: Bug 83358 (https://bugs.freedesktop.org/83358)
+   Fixes: 6d2cf40166d8 ("MIPS: Fix exported symbols in public API")
+   Signed-off-by: James Cowgill <james410@cowgill.org.uk>
+   Cc: Vicente Olivert Riera <Vincent.Riera@imgtec.com>
+   Cc: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+   Acked-by: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 6f14bae79ed490b6f3fd9d66b51d843c0522543e
+Author: Bill Spitzak <spitzak@gmail.com>
+Date: Wed Apr 29 11:44:17 2015 -0700
+
+   test: Added more demos and tests to .gitignore file
+
+   Uses a wildcard to handle the majority which end in "-test".
+
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit e0c0153d8e5d42c08c2b9bd2cf2123bff2c48d75
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed Apr 8 14:20:09 2015 +0100
+
+   test: Add a new benchmarker targeting affine operations
+
+   Affine-bench is written by
 following the example of lowlevel-blt-bench.
+
+   Affine-bench differs from lowlevel-blt-bench in the following:
+   - does not test different sized operations fitting to specific caches,
+   destination is always 1920x1080
+   - allows defining the affine transformation parameters
+   - carefully computes operation extents to hit the COVER_CLIP fast paths
+
+   Original version by Ben Avison. Changes by Pekka in v3:
+   - commit message
+   - style fixes
+   - more comments
+   - refactoring (e.g. bench_info_t)
+   - help output tweak
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 58e21d3e45c5227c2ca9ac00cf044f22a7975180
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Tue Apr 14 11:42:00 2015 +0300

+
+   lowlevel-blt-bench: use a8r8g8b8 for CA solid masks
+
+   When doing component alpha with a solid mask, use a mask format that has
+   all the color
 channels instead of just a8. As Ben Avison explains it:
+
+   "Lowlevel-blt-bench initialises all its images using memset(0xCC) so an
+   a8 solid image would be converted by _pixman_image_get_solid() to
+   0xCC000000 whereas an a8r8g8b8 would be 0xCCCCCCCC. When you're not in
+   component alpha mode, only the alpha byte matters for the mask image,
+   but in the case of component alpha operations, a fast path might decide
+   that it can save itself a lot of multiplications if it spots that 3
+   constant mask components are already 0."
+
+   No (default) test so far has a solid mask with CA. This is just
+   future-proofing lowlevel-blt-bench to do what one would expect.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit be49f929b656ef83420072e82658e3b3a96a9277
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Fri Apr 10 16:42:49 2015 +0300
+
+   lowlevel-blt-bench:
 use the test pattern parser
+
+   Let lowlevel-blt-bench parse the test name string from the command line,
+   allowing to run almost infinitely more tests. One is no longer limited
+   to the tests listed in the big table.
+
+   While you can use the old short-hand names like src_8888_8888, you can
+   also use all possible operators now, and specify pixel formats exactly
+   rather than just x888, for instance.
+
+   This even allows to run crazy patterns like
+   conjoint_over_reverse_a8b8g8r8_n_r8g8b8x8.
+
+   All individual patterns are now interpreted through the parser. The
+   pattern "all" runs the same old default test set as before but through
+   the parser instead of the hard-coded parameters.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 5b279121086274a18912de77865f83d637094739
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

+Date: Fri Apr
 10 14:39:13 2015 +0300
+
+   lowlevel-blt-bench: add test name parser and self-test
+
+   This patch is inspired by "lowlevel-blt-bench: Parse test name strings in
+   general case" by Ben Avison. From Ben's commit message:
+
+   "There are many types of composite operation that are useful to benchmark
+   but which are omitted from the table. Continually having to add extra
+   entries to the table is a nuisance and is prone to human error, so this
+   patch adds the ability to break down unknow strings of the format
+   <operation>_<src>[_<mask]_<dst>[_ca]
+   where bitmap formats are specified by number of bits of each component
+   (assumed in ARGB order) or 'n' to indicate a solid source or mask."
+
+   Add the parser to lowlevel-blt-bench.c, but do not hook it up to the
+   command line just yet. Instead, make it run a self-test.
+
+   As we now dynamically parse strings similar to the test names in the
+   huge table 'tests_tbl', we should make
 sure we can parse the old
+   well-known test names and produce exactly the same test parameters. The
+   self-test goes through this old table and verifies the parsing results.
+
+   Unfortunately the old table is not exactly consistent, it contains some
+   special cases that cannot be produced by the parsing rules. Whether
+   these special cases are intentional or just an oversight is not always
+   clear. Anyway, add a small table to reproduce the special cases
+   verbatim.
+
+   If we wanted, we could remove the big old table in a follow-up commit,
+   but then we would also lose the parser self-test.
+
+   The point of this whole excercise to let lowlevel-blt-bench recognize
+   novel test patterns in the future, following exactly the conventions
+   used in the old table.
+
+   Ben, from what I see, this parser has one major difference to what you
+   wrote. For a solid mask, your parser uses a8r8g8b8 format, while mine
+   uses a8 which comes from
 the old table.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 1f45bd6565607049c7bcf707f2fdaedbb16bc926
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>

+Date: Fri Apr 10 12:50:23 2015 +0300
+
+   test/utils: add format aliases used by lowlevel-blt-bench
+
+   Lowlevel-blt-bench uses several pixel format shorthands. Pick them from
+   the great table in lowlevel-blt-bench.c and add them here so that
+   format_from_string() can recognize them.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit ef9c28a0e44f7220f49a5a47cb33077cbbba00ee
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Mon Apr 13 10:06:31 2015 +0300
+
+   test/utils: add operator aliases for lowlevel-blt-bench
+
+   Lowlevel-blt-bench uses the operator alias "outrev". Add an alias for it
+   in the operator-name
 table.
+
+   Also add aliases for overrev, inrev and atoprev, so that
+   lowlevel-blt-bench can later recognize them for new test cases.
+
+   The aliases are added such, that an operator to name lookup will never
+   return them; it returns the proper names instead.
+
+   Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+   Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit f1f6cc23ce340087035e7ec912723e8a6134efc3
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Thu Apr 9 14:17:54 2015 +0300
+
+   test/utils: support format name aliases
+
+   Previously there was a flat list of formats, used to iterate over all
+   formats when looking up a format from name or listing them. This cannot
+   support name aliases.
+
+   To support name aliases (multiple name strings mapping to the same
+   format), create a format-name mapping table. Functions format_name(),
+   format_from_string(), and list_formats() should
 keep on working exactly
+   like before, except format_from_string() now recognizes the additional
+   formats that format_name() already supported.
+
+   The only the formats from the old format list are added with ENTRY, so

+ that list_formats() works as before. The whole list is verified against
+ the authoritative list in pixman.h, entries missing from the old list
+ are commented out.
+
+ The extra formats supported by the old format_name() are added as
+ ALIASes. A side-effect of that is that now also format_from_string()
+ recognizes the following new names: x4c4 / c8, x4g4 / g8, c4, g4, g1,
+ yuy2, yv12, null, solid, pixbuf, rpixbuf, unknown.
+
+ Name aliases will be useful in follow-up patches, where
+ lowlevel-blt-bench.c is converted to parse short-hand format names from
+ strings.
+
+ Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit 2c5fac932061351ae2153026003539745aa9b44e
+Author:
 Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Thu Apr 9 13:13:09 2015 +0300
+
+ test/utils: support operator name aliases
+
+ Previously there was a flat list of operators (pixman_op_t), used to
+ iterate over all operators when looking up an operator from name or
+ listing them. This cannot support name aliases.
+
+ To support name aliases (multiple name strings mapping to the same
+ operator), create an operator-name mapping table. Functions
+ operator_name, operator_from_string, and list_operators should keep on
+ working exactly like before, except operator_from_string now recognizes
+ a few aliases too.
+
+ Name aliases will be useful in follow-up patches, where
+ lowlevel-blt-bench.c is converted to parse operator names from strings.
+ Lowlevel-blt-bench uses shorthand names instead of the usual names. This
+ change allows lowlevel-blt-bench.s to use operator_from_string in the
+
   future.
+
+ Signed-off-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+ Reviewed-by: Ben Avison <bavison@riscosopen.org>
+
+commit f122907dc1d18cdd7e11fec5e4f9c220c62e6e77
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Tue Mar 3 15:24:17 2015 +0000
+
+ test: Move format and operator string functions to utils.[ch]

+
+   This permits format_from_string(), list_formats(), list_operators() and
+   operator_from_string() to be used from tests other than check-formats.
+
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 9bc025f7cd6e37f5cc1a2c2799aea6850763a33f
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed Apr 8 14:20:30 2015 +0100
+
+   pixman.c: Coding style
+
+   A few violations of coding style were identified in code copied from here
+   into affine-bench.
+
+   Reviewed-by: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+
+commit 978dd9fc6527f476fe980c764f0019a7a0bd451d
+Author: Ben Avison <bavison@riscosopen.org>
+Date:
   Tue Mar 3 15:24:16 2015 +0000
+
+   armv6: Fix typo in preload macro
+
+   Missing "lsl" meant that cases with a 32-bit source and/or mask, and an
+   8-bit destination, the code would not assemble.
+
+commit 594e6a6c93e92fcfb495e987aec5617f6c37f467
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Sep 22 06:30:51 2014 +0300
+
+   mmx: Fix _mm_empty problems for over_8888_8888/over_8888_n_8888
+
+   Using "--disable-sse2 --disable-ssse3" configure options and
+   CFLAGS="-m32 -O2 -g" on an x86 system results in pixman "make check"
+   failures:
+
+   ../test-driver: line 95: 29874 Aborted
+   FAIL: affine-test
+   ../test-driver: line 95: 29887 Aborted
+   FAIL: scaling-test
+
+   One _mm_empty () was missing and another one is needed to workaround
+   an old GCC bug https://gcc.gnu.org/PR47759 (GCC may move MMX instructions
+   around and cause test suite failures).
+
+   Reviewed-by: Matt

```
 Turner <mattst88@gmail.com>
+
+commit a8669137b9b95b5a6f78c880a51c016a1dd439b4
+Author: Søren Sandmann Pedersen <soren.sandmann@gmail.com>
+Date:   Fri Sep 19 21:51:56 2014 -0700
+
+    Fix comment about BILINEAR_INTERPOLATION_BITS to say < 8 rather than <= 8
+
+    Since a4c79d695d52c94647b1aff7 the constant
+    BILINEAR_INTERPOLATION_BITS must be strictly less than 8, so fix the
+    comment to say this, and also add a COMPILE_TIME_ASSERT in the
+    bilinear fetcher in pixman-fast-path.c
+
+commit f078727f392bc9f235df916e75634ed87177b9b4
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Wed Jan 2 11:16:12 2013 -0800
+
+    mmx: Add nearest over_8888_8888
+
+    lowlevel-blt-bench -n, over_8888_8888, 15 iterations on Loongson 2f:
+
+             Before          After
+           Mean StdDev     Mean StdDev   Change
+       L1   15.8   0.02    24.0   0.06   +52.0%
+       L2   14.8   0.15    23.3   0.13   +56.9%
+       M    10.3   0.01    13.8   0.03   +33.6%
+
      HT    10.0   0.02    14.5   0.05   +44.7%
+       VT    9.7   0.02    13.5   0.04   +39.2%
+       R     9.1   0.01    12.2   0.04   +34.4%
+       RT    7.1   0.06     8.9   0.09   +25.2%
+
+commit f868ff5e342cfe43d75a53529895e0c2496098d4
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Tue Jan 1 21:18:09 2013 -0800
+
+    mmx: Add nearest over_8888_n_8888
+
+    lowlevel-blt-bench -n, over_8888_n_8888, 15 iterations on Loongson 2f:
+
+             Before          After
+           Mean StdDev     Mean StdDev   Change
+       L1    9.7   0.01    19.2   0.02   +98.2%
+       L2    9.6   0.11    19.2   0.16   +99.5%
+       M     7.3   0.02    12.5   0.01   +72.0%
+       HT    6.6   0.01    13.4   0.02  +103.2%
+       VT    6.4   0.01    12.6   0.03   +96.1%
+       R     6.3   0.01    11.2   0.01   +76.5%
```

+ RT 4.4 0.01 8.1 0.03 +82.6%
+
+commit 6d2cf40166d81bfc63108504c8022dc4fec37ff5
+Author: Nemanja Lukic
<nemanja.lukic@rt-rk.com>
+Date: Fri Jun 27 18:05:38 2014 +0200
+
+ MIPS: Fix exported symbols in public API.
+
+commit 5a2edb3f2c2cfde6b25ac614e2004a9f78583d74
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jun 1 18:50:23 2014 -0400
+
+ test: Rearrange tests in order of increasing runtime
+
+ Making short tests run first is convenient to catch obvious bugs
+ early.
+
+commit 9cd283b2eb8279824406bfd47b020d21fc00cf82
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Apr 23 20:25:40 2014 -0400
+
+ pixman-gradient-walker: Make left_x and right_x 64 bit variables
+
+ The variables left_x, and right_x in gradient_walker_reset() are
+ computed from pos, which is a 64 bit quantity, so to avoid overflows,
+ these variables must be 64 bit as well.
+
+ Similarly, the left_x and right_x that are stored in
+ pixman_gradient_walker_t need to be 64 bit as well; otherwise,
+ pixman_gradient_walker_pixel() will call reset too
often.
+
+ This fixes the radial-invalid test, which was generating 'invalid'
+ floating point exceptions when the overflows caused color values to be
+ outside of [0, 255].
+
+commit f5f5dbbbc668a3a90c6cfc79bbd2422805db31e7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Apr 23 20:07:37 2014 -0400
+
+ test: Add radial-invalid test program
+
+ This program demonstrates a bug in gradient walker, where some integer
+ overflows cause colors outside the range [0, 255] to be generated,
+ which in turns cause 'invalid' floating point exceptions when those
+ colors are converted to uint8_t.
+

+ The bug was first reported by Owen Taylor on the #cairo IRC channel.
+
+commit 91f32ce961bc85f98b3372b95681ad8918d24b18
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu Apr 24 13:39:06 2014 +0300
+
+ ARMv6: Add fast path for src_x888_0565
+
+ Benchmark results, "before" is upstream/master
+ 5f661ee719be25c3aa0eb0d45e0db23a37e76468,
and "after" contains this
+ patch on top.
+
+ lowlevel-blt-bench, src_8888_0565, 100 iterations:
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 25.9 0.20 115.6 0.70 100.00% +347.1%
+ L2 14.4 0.23 52.7 3.48 100.00% +265.0%
+ M 14.1 0.01 79.8 0.17 100.00% +465.9%
+ HT 10.2 0.03 32.9 0.31 100.00% +221.2%
+ VT 9.8 0.03 29.8 0.25 100.00% +203.4%
+ R 9.4 0.03 27.8 0.18 100.00% +194.7%
+ RT 4.6 0.04 10.9 0.29 100.00% +135.9%
+
+ At most 19 outliers rejected per test per set.
+
+ cairo-perf-trace with trimmed traces results were indifferent.
+
+ A system-wide perf_3.10 profile on Raspbian shows significant
+ differences in the X server CPU usage. The following were measured from
+ a 130x62 char lxterminal running 'dmesg' every 0.5 seconds for roughly
+
30 seconds. These profiles are libpixman.so symbols only.
+
+ Before:
+
+ Samples: 63K of event 'cpu-clock', Event count (approx.): 2941348112, DSO: libpixman-1.so.0.33.1
+ 37.77% Xorg [.] fast_fetch_r5g6b5
+ 14.39% Xorg [.] pixman_composite_over_n_8_8888_asm_armv6
+ 8.51% Xorg [.] fast_write_back_r5g6b5
+ 7.38% Xorg [.] pixman_composite_src_8888_8888_asm_armv6
+ 4.39% Xorg [.] pixman_composite_add_8_8_asm_armv6
+ 3.69% Xorg [.] pixman_composite_src_n_8888_asm_armv6
+ 2.53% Xorg [.] _pixman_image_validate
+ 2.35% Xorg [.] pixman_image_composite32
+
+ After:

+
+   Samples: 31K of event 'cpu-clock', Event count (approx.): 3619782704, DSO: libpixman-1.so.0.33.1
+   22.36% Xorg [.] pixman_composite_over_n_8_8888_asm_armv6
+   13.59% Xorg [.] pixman_composite_src_x888_0565_asm_armv6
+   12.75% Xorg [.] pixman_composite_src_8888_8888_asm_armv6
+   6.79% Xorg [.] pixman_composite_add_8_8_asm_armv6
+
     5.95% Xorg [.] pixman_composite_src_n_8888_asm_armv6
+   4.12% Xorg [.] pixman_image_composite32
+   3.69% Xorg [.] _pixman_image_validate
+   3.65% Xorg [.] _pixman_bits_image_setup_accessors
+
+   Before, fast_fetch_r5g6b5 + fast_write_back_r5g6b5 took 46% of the
+   samples in libpixman, and probably incurred some memcpy() load, too.
+   After, pixman_composite_src_x888_0565_asm_armv6 takes 14%. Note, that
+   the sample counts are very different before/after, as less time is spent
+   in Pixman and running time is not exactly the same.
+
+   Furthermore, in the above test, the CPU idle function was sampled 9%
+   before, and 15% after.
+
+   v4, Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+   Re-benchmarked on Raspberry Pi, commit message.
+
+commit 5f661ee719be25c3aa0eb0d45e0db23a37e76468
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Thu Apr 10 09:41:38 2014 +0300
+
+   ARM: use pixman_asm_function in internal
 headers
+
+   The two ARM headers contained open-coded copies of pixman_asm_function,
+   replace these.
+
+   Since it seems customary that ARM headers do not use CPP include guards,
+   rely on the .S files to #include "pixman-arm-asm.h" first. They all
+   do now.
+
+   v2: Fix a build failure on rpi by adding one #include.
+
+commit ab587b444cf9ac1ee421b9942befc509b52cb109
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed Apr 9 16:25:32 2014 +0300
+
+   ARMv6: Add fast path for in_reverse_8888_8888
+
+   Benchmark results, "before" is the patch
+   * upstream/master 4b76bbfda670f9ede67d0449f3640605e1fc4df0

+ + ARMv6: Support for very variable-hungry composite operations
+ + ARMv6: Add fast path for over_n_8888_8888_ca
+ and "after" contains the additional patches on top:
+ + ARMv6: Add fast path flag to force no preload of destination buffer
+ + ARMv6: Add fast path for in_reverse_8888_8888 (this patch)
+
+ lowlevel-blt-bench,
in_reverse_8888_8888, 100 iterations:
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 21.1 0.07 32.3 0.08 100.00% +52.9%
+ L2 11.6 0.29 18.0 0.52 100.00% +54.4%
+ M 10.5 0.01 16.1 0.03 100.00% +54.1%
+ HT 8.2 0.02 12.0 0.04 100.00% +45.9%
+ VT 8.1 0.02 11.7 0.04 100.00% +44.5%
+ R 8.1 0.02 11.3 0.04 100.00% +39.7%
+ RT 4.8 0.04 6.1 0.09 100.00% +27.3%
+
+ At most 12 outliers rejected per test per set.
+
+ cairo-perf-trace with trimmed traces, 30 iterations:
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ t-firefox-paintball.trace 18.0 0.01 14.1 0.01 100.00% +27.4%
+ t-firefox-chalkboard.trace 36.7 0.03
36.0 0.02 100.00% +1.9%
+ t-firefox-canvas-alpha.trace 20.7 0.22 20.3 0.22 100.00% +1.9%
+ t-swfdec-youtube.trace 7.8 0.03 7.8 0.03 100.00% +0.9%
+ t-firefox-talos-gfx.trace 25.8 0.44 25.6 0.29 93.87% +0.7% (insignificant)
+ t-firefox-talos-svg.trace 20.6 0.04 20.6 0.03 100.00% +0.2%
+ t-firefox-fishbowl.trace 21.2 0.04 21.1 0.02 100.00% +0.2%
+ t-xfce4-terminal-a1.trace 4.8 0.01 4.8 0.01 98.85% +0.2% (insignificant)
+ t-swfdec-giant-steps.trace 14.9 0.03 14.9 0.02 99.99% +0.2%
+ t-poppler-reseau.trace 22.4 0.11 22.4 0.08 86.52% +0.2% (insignificant)
+ t-gnome-system-monitor.trace 17.3 0.03 17.2 0.03 99.74% +0.2%
+ t-firefox-scrolling.trace 24.8 0.12 24.8 0.11 70.15% +0.1% (insignificant)
+
t-firefox-particles.trace 27.5 0.18 27.5 0.21 48.33% +0.1% (insignificant)
+ t-grads-heat-map.trace 4.4 0.04 4.4 0.04 16.61% +0.0% (insignificant)
+ t-firefox-fishtank.trace 13.2 0.01 13.2 0.01 7.64% +0.0% (insignificant)
+ t-firefox-canvas.trace 18.0 0.05 18.0 0.05 1.31% -0.0% (insignificant)
+ t-midori-zoomed.trace 8.0 0.01 8.0 0.01 78.22% -0.0% (insignificant)
+ t-firefox-planet-gnome.trace 10.9 0.02 10.9 0.02 64.81% -0.0% (insignificant)
+ t-gvim.trace 33.2 0.21 33.2 0.18 38.61% -0.1% (insignificant)
+ t-firefox-canvas-swscroll.trace 32.2 0.09 32.2 0.11 73.17% -0.1% (insignificant)
+ t-firefox-asteroids.trace 11.1 0.01 11.1 0.01 100.00% -0.2%

+ t-evolution.trace 13.0 0.05
13.0 0.05 91.99% -0.2% (insignificant)
+ t-gnome-terminal-vim.trace 19.9 0.14 20.0 0.14 97.38% -0.4% (insignificant)
+ t-poppler.trace 9.8 0.06 9.8 0.04 99.91% -0.5%
+ t-chromium-tabs.trace 4.9 0.02 4.9 0.02 100.00% -0.6%
+
+ At most 6 outliers rejected per test per set.
+
+ Cairo perf reports the running time, but the change is computed for
+ operations per second instead (inverse of running time).
+
+ Confidence is based on Welch's t-test. Absolute changes less than 1%
+ can be accounted as measurement errors, even if statistically
+ significant.
+
+ There was a question of why FLAG_NO_PRELOAD_DST is used. It makes
+ lowlevel-blt-bench results worse except for L1, but improves some
+ Cairo trace benchmarks.
+
+ "Ben Avison" <bavison@riscosopen.org> wrote:
+
+ > The thing with the lowlevel-blt-bench benchmarks
for the more
+ > sophisticated composite types (as a general rule, anything that involves
+ > branches at the per-pixel level) is that they are only profiling the case
+ > where you have mid-level alpha values in the source/mask/destination.
+ > Real-world images typically have a disproportionate number of fully
+ > opaque and fully transparent pixels, which is why when there's a
+ > discrepancy between which implementation performs best with cairo-perf
+ > trace versus lowlevel-blt-bench, I usually favour the Cairo winner.
+ >
+ > The results of removing FLAG_NO_PRELOAD_DST (in other words, adding
+ > preload of the destination buffer) are easy to explain in the
+ > lowlevel-blt-bench results. In the L1 case, the destination buffer is
+ > already in the L1 cache, so adding the preloads is simply adding extra
+ > instruction cycles that have no effect on memory operations. The "in"
+ > compositing operator depends upon the alpha of both source
and
+ > destination, so if you use uniform mid-alpha, then you actually do need
+ > to read your destination pixels, so you benefit from preloading them. But
+ > for fully opaque or fully transparent source pixels, you don't need to
+ > read the corresponding destination pixel - it'll either be left alone or
+ > overwritten. Since the ARM11 doesn't use write-allocate cacheing, both of
+ > these cases avoid both the time taken to load the extra cachelines, as
+ > well as increasing the efficiency of the cache for other data. If you
+ > examine the source images being used by the Cairo test, you'll probably
+ > find they mostly use transparent or opaque pixels.
+

+   v4, Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+   Rebased, re-benchmarked on Raspberry Pi, commit message.
+
+   v5, Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+   Rebased, re-benchmarked on Raspberry Pi due to a fix to
+   "ARMv6: Add fast path for over_n_8888_8888_ca"
 patch.
+
+commit 68d2f7b486a9ccc877a2214f7f5ef562e2846581
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed Apr 9 16:25:31 2014 +0300
+
+   ARMv6: Add fast path flag to force no preload of destination buffer
+
+commit 4ad769cbec47ca0df43dc586f689b1968bbc942f
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed Apr 9 16:25:30 2014 +0300
+
+   ARMv6: Add fast path for over_n_8888_8888_ca
+
+   Benchmark results, "before" is
+   * upstream/master 4b76bbfda670f9ede67d0449f3640605e1fc4df0
+   "after" contains the additional patches on top:
+   + ARMv6: Support for very variable-hungry composite operations
+   + ARMv6: Add fast path for over_n_8888_8888_ca (this patch)
+
+   lowlevel-blt-bench, over_n_8888_8888_ca, 100 iterations:
+
+   Before   After
+   Mean StdDev   Mean StdDev   Confidence   Change
+   L1   2.7   0.00   16.1   0.06   100.00%   +500.7%
+   L2   2.4   0.01   14.1   0.15   100.00%   +489.9%
+   M
    2.3   0.00   14.3   0.01   100.00%   +510.2%
+   HT   2.2   0.00   9.7   0.03   100.00%   +345.0%
+   VT   2.2   0.00   9.4   0.02   100.00%   +333.4%
+   R   2.2   0.01   9.5   0.03   100.00%   +331.6%
+   RT   1.9   0.01   5.5   0.07   100.00%   +192.7%
+
+   At most 1 outliers rejected per test per set.
+
+   cairo-perf-trace with trimmed traces, 30 iterations:
+
+   Before   After
+   Mean StdDev   Mean StdDev   Confidence   Change
+   t-firefox-talos-gfx.trace   33.1   0.42   25.8   0.44   100.00%   +28.6%
+   t-firefox-scrolling.trace   31.4   0.11   24.8   0.12   100.00%   +26.3%
+   t-gnome-terminal-vim.trace   22.4   0.10   19.9   0.14   100.00%   +12.5%

+ t-evolution.trace 13.9 0.07 13.0 0.05 100.00% +6.5%
+ t-firefox-planet-gnome.trace 11.6 0.02 10.9 0.02
100.00% +6.5%
+ t-gvim.trace 34.0 0.21 33.2 0.21 100.00% +2.4%
+ t-chromium-tabs.trace 4.9 0.02 4.9 0.02 100.00% +1.0%
+ t-poppler.trace 9.8 0.05 9.8 0.06 100.00% +0.7%
+ t-firefox-canvas-swscroll.trace 32.3 0.10 32.2 0.09 100.00% +0.4%
+ t-firefox-paintball.trace 18.1 0.01 18.0 0.01 100.00% +0.3%
+ t-poppler-reseau.trace 22.5 0.09 22.4 0.11 99.29% +0.3%
+ t-firefox-canvas.trace 18.1 0.06 18.0 0.05 99.29% +0.2%
+ t-xfce4-terminal-a1.trace 4.8 0.01 4.8 0.01 99.77% +0.2%
+ t-firefox-fishbowl.trace 21.2 0.03 21.2 0.04 100.00% +0.2%
+ t-gnome-system-monitor.trace 17.3 0.03 17.3 0.03 99.54% +0.1%
+ t-firefox-asteroids.trace 11.1 0.01 11.1 0.01 100.00%
+0.1%
+ t-midori-zoomed.trace 8.0 0.01 8.0 0.01 99.98% +0.1%
+ t-grads-heat-map.trace 4.4 0.04 4.4 0.04 34.08% +0.1% (insignificant)
+ t-firefox-talos-svg.trace 20.6 0.03 20.6 0.04 54.06% +0.0% (insignificant)
+ t-firefox-fishtank.trace 13.2 0.01 13.2 0.01 52.81% -0.0% (insignificant)
+ t-swfdec-giant-steps.trace 14.9 0.02 14.9 0.03 85.50% -0.1% (insignificant)
+ t-firefox-chalkboard.trace 36.6 0.02 36.7 0.03 100.00% -0.2%
+ t-firefox-canvas-alpha.trace 20.7 0.32 20.7 0.22 55.76% -0.3% (insignificant)
+ t-swfdec-youtube.trace 7.8 0.02 7.8 0.03 100.00% -0.5%
+ t-firefox-particles.trace 27.4 0.16 27.5 0.18 99.94% -0.6%
+
+ At most 4 outliers rejected per test per set.
+
+ Cairo perf reports the
running time, but the change is computed for
+ operations per second instead (inverse of running time).
+
+ Confidence is based on Welch's t-test. Absolute changes less than 1%
+ can be accounted as measurement errors, even if statistically
+ significant.
+
+ v4, Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+ Use pixman_asm_function instead of startfunc.
+ Rebased. Re-benchmarked on Raspberry Pi.
+ Commit message.
+
+ v5, Ben Avison <bavison@riscosopen.org> :
+ Fixed the bug exposed in blitters-test 4928372.
+ 15 hours of testing, compared to the 45 minutes to hit
+ the bug originally.
+ Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+ Squash the fix, re-benchmark on Raspberry Pi.
+
+commit 73d2f8b61ae5e320a7795c29b6041b7885cf2953

+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed Apr 9 16:25:29 2014 +0300
+
+   ARMv6: Support for very variable-hungry composite operations
+
+   Previously, the variable
 ARGS_STACK_OFFSET was available to extract values
+   from function arguments during the init macro. Now this changes dynamically
+   around stack operations in the function as a whole so that arguments can be
+   accessed at any point. It is also joined by LOCALS_STACK_OFFSET, which
+   allows access to space reserved on the stack during the init macro.
+
+   On top of this, composite macros now have the option of using all of WK0-WK3
+   registers rather than just the subset it was told to use; this requires the
+   pixel count to be spilled to the stack over the leading pixels at the start
+   of each line. Thus, at best, each composite operation can use 11 registers,
+   plus any pointer registers not required for the composite type, plus as much
+   stack space as it needs, divided up into constants and variables as necessary.
+
+commit 857e40f3d2bc2cfb714913e0cd7e6184cf69aca3
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Wed Apr 9 14:14:12 2014 -0400
+
+
 create_bits(): Cast the result of height * stride to size_t
+
+   In create_bits() both height and stride are ints, so the result is
+   also an int, which will overflow if height or stride are big enough
+   and size_t is bigger than int.
+
+   This patch simply casts height to size_t to prevent these overflows,
+   which prevents the crash in:
+
+   https://bugzilla.redhat.com/show_bug.cgi?id=972647
+
+   It's not even close to fixing the full problem of supporting big
+   images in pixman.
+
+   See also
+
+   https://bugs.freedesktop.org/show_bug.cgi?id=69014
+
+commit 4b76bbfda670f9ede67d0449f3640605e1fc4df0
+Author: Pekka Paalanen <pekka.paalanen@collabora.co.uk>
+Date: Mon Mar 31 15:03:43 2014 +0300
+
+   ARM: share pixman_asm_function definition
+

+   Several files define identically the asm macro pixman_asm_function.
+   Merge all these definitions into a new asm header.
+
+   The original definition is taken from pixman-arm-simd-asm-scaled.S
 with
+   the copyright/licence/author blurb verbatim.
+
+commit 4ee85b008333a95d4dfc27e7b04c444dcbb3a7e7
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Fri Mar 28 11:13:21 2014 +0200
+
+   ARMv6: Add fast path for over_reverse_n_8888
+
+   Benchmark results, "before" is upstream commit
+   c343846 lowlevel-blt-bench: add in_reverse_8888_8888 test
+   and "after" is with this patch only added on top.
+
+   lowlevel-blt-bench, over_reverse_n_8888, 100 iterations:
+
+   Before   After
+   Mean StdDev   Mean StdDev   Confidence   Change
+   L1   15.1   0.1   274.5   2.3   100.00%   +1718.9%
+   L2   12.8   0.3   181.8   0.7   100.00%   +1315.5%
+   M   10.8   0.0   77.9   0.0   100.00%   +621.2%
+   HT   9.7   0.0   29.4   0.2   100.00%   +204.9%
+   VT   9.5   0.0   26.7   0.1   100.00%   +179.3%
+   R   9.3   0.0   25.3   0.1   100.00%   +173.6%
+   RT   6.0   0.1
    11.0   0.2   100.00%   +82.9%
+
+   At most 16 outliers rejected per case per set.
+
+   cairo-perf-trace with trimmed traces, 30 iterations:
+
+   Before   After
+   Mean StdDev   Mean StdDev   Confidence   Change
+   t-poppler.trace   12.9   0.1   9.7   0.0   100.00%   +32.6%
+   t-firefox-talos-gfx.trace   33.2   0.7   32.9   0.4   95.23%   +0.9% (insignificant)
+   t-firefox-particles.trace   27.4   0.1   27.3   0.2   99.65%   +0.4%
+   t-firefox-canvas-alpha.trace   20.5   0.3   20.5   0.3   57.51%   +0.3% (insignificant)
+   t-poppler-reseau.trace   22.4   0.1   22.4   0.1   95.69%   +0.3% (insignificant)
+   t-firefox-fishtank.trace   13.2   0.0   13.2   0.0   99.84%   +0.1%
+   t-swfdec-giant-steps.trace   14.9   0.0   14.9   0.0   87.68%   +0.1%
 (insignificant)
+   t-swfdec-youtube.trace   7.8   0.0   7.8   0.0   35.22%   +0.1% (insignificant)
+   t-firefox-planet-gnome.trace   11.5   0.0   11.5   0.0   29.37%   +0.0% (insignificant)
+   t-firefox-fishbowl.trace   21.2   0.0   21.2   0.0   18.09%   +0.0% (insignificant)
+   t-grads-heat-map.trace   4.4   0.0   4.4   0.0   1.84%   +0.0% (insignificant)

```
+    t-firefox-paintball.trace         18.0    0.0     18.0    0.0     33.43%      -0.0%  (insignificant)
+    t-firefox-talos-svg.trace         20.5    0.0     20.5    0.1     68.56%      -0.1%  (insignificant)
+    t-midori-zoomed.trace              8.0    0.0      8.0    0.0     99.98%      -0.1%
+    t-firefox-canvas-swscroll.trace   32.1    0.1     32.1    0.1     85.27%      -0.1%  (insignificant)
+    t-gnome-system-monitor.trace      17.2    0.0     17.2    0.0     99.97%      -0.2%
+    t-firefox-chalkboard.trace        36.5    0.0
 36.6    0.0    100.00%      -0.2%
+    t-firefox-asteroids.trace         11.1    0.0     11.1    0.0    100.00%      -0.2%
+    t-firefox-canvas.trace            17.9    0.0     18.0    0.0    100.00%      -0.3%
+    t-chromium-tabs.trace              4.9    0.0      4.9    0.0     97.95%      -0.3%  (insignificant)
+    t-xfce4-terminal-a1.trace          4.8    0.0      4.8    0.0    100.00%      -0.4%
+    t-firefox-scrolling.trace         31.1    0.1     31.2    0.1    100.00%      -0.5%
+    t-evolution.trace                 13.7    0.1     13.8    0.1     99.99%      -0.6%
+    t-gnome-terminal-vim.trace        22.0    0.2     22.2    0.1     99.99%      -0.7%
+    t-gvim.trace                      33.2    0.2     33.5    0.2    100.00%      -0.8%
+
+    At most 6 outliers rejected per case per set.
+
+    Cairo perf reports the running time, but the change is computed for
+    operations per second instead (inverse of running time).
+
+    Changes in the order
 of +/- 1% can be accounted for measurement errors,
+    even if they are deemed to be statistically significant. This claim is
+    based on comparing two 30-iteration identical "before" runs using the
+    exact same binaries, and observing changes from -0.4% to +0.5% with
+    >=99% confidence.
+
+    Confidence is based on Welch's t-test.
+
+    v4, Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+     Rebased, re-benchmarked on Raspberry Pi, commit message.
+
+commit 56622140e3a8175c8ccc82c9717adf8372043364
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Fri Mar 7 08:23:10 2014 +0200
+
+    test: Fix OpenMP clauses for the tolerance-test
+
+    Compiling with the Intel Compiler reveals a problem:
+
+    tolerance-test.c(350): error: index variable "i" of for statement following an OpenMP for pragma must be private
+      #       pragma omp parallel for default(none) shared(i) private (result)
+      ^
+
+    In addition to this, the 'result'
 variable also should not be private
+    (otherwise its value does not survive after the end of the loop). It
```

+ needs to be either shared or use the reduction clause to describe how
+ the results from multiple threads are combined together. Reduction
+ seems to be more appropriate here.
+
+commit 840912b31159aa8ac7be4ea0cee8bdef95a539a4
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Fri Mar 7 06:39:42 2014 +0200
+
+ configure.ac: Check if the compiler supports GCC vector extensions
+
+ The Intel Compiler 14.0.0 claims version GCC 4.7.3 compatibility
+ via __GNUC__/__GNUC__MINOR__ macros, but does not provide the same
+ level of GCC vector extensions support as the original GCC compiler:
+   http://gcc.gnu.org/onlinedocs/gcc/Vector-Extensions.html
+
+ Which results in the following compilation failure:
+
+ In file included from ../test/utils.h(7),
+   from ../test/utils.c(3):
+ ../test/utils-prng.h(138):
 error: expression must have integral type
+   uint32x4 e = x->a - ((x->b << 27) + (x->b >> (32 - 27)));
+   ^
+
+ The problem is fixed by doing a special check in configure for
+ this feature.
+
+commit c343846625152bacbba8d35c0354ed8aadb3c6a0
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu Mar 20 10:30:28 2014 +0200
+
+ lowlevel-blt-bench: add in_reverse_8888_8888 test
+
+ in_reverse_8888_8888 is one of the more commonly used operations in the
+ cairo-perf-trace suite that hasn't been in lowlevel-blt-bench until now.
+
+ v4, Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+ Split from "Add extra test to lowlevel-blt-bench and fix an
+ existing one", new summary.
+
+commit 898859f3d3d91132ca1258429cbbc36231b2b33d
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu Mar 20 10:30:27 2014 +0200
+
+ lowlevel-blt-bench: over_reverse_n_8888 needs solid source
+
+ v4, Pekka Paalanen <pekka.paalanen@collabora.co.uk>

:
+   Split from "Add extra test to lowlevel-blt-bench and fix an
+   existing one", new summary.
+
+commit 38317cbfde734a8d8ef65906229f41d8f248702c
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu Mar 20 10:30:26 2014 +0200
+
+   ARMv6: remove 1 instr per row in generate_composite_function
+
+   This knocks off one instruction per row. The effect is probably too small to
+   be measurable, but might as well be included. The second occurrence of this
+   sequence doesn't actually benefit at all, but is changed for consistency.
+
+   The saved instruction comes from combining the "and" inside the .if
+   statement with an earlier "tst". The "and" was normally needed, except
+   for in one special case, where bits 4-31 were all shifted off the top of
+   the register later on in preload_leading_step2, so we didn't care about
+   their values.
+
+   v4, Pekka Paalanen <pekka.paalanen@collabora.co.uk> :
+   Remove "bits 0-3" from
 the comments, update patch summary, and
+   augment message with Ben's suggestion.
+
+commit 763a6d3e6740d1624b557f8e49fd21fd26928e2c
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu Mar 20 10:30:25 2014 +0200
+
+   ARMv6: Fix indentation in the composite macros
+
+commit 82d094654a46bd97d47f1f132a01ae0a74b986f3
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sun Dec 8 09:08:45 2013 -0500
+
+   Remove all the operators that use division from pixman-combine32.c
+
+   These are now handled by floating point combiners.
+
+commit ccb1df0c5e80736a0afc3482ec5268d729953d65
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sun Dec 8 08:51:31 2013 -0500
+
+   Copy the comments from pixman-combine32.c to pixman-combine-float.c
+
+   An upcoming commit will delete many of the operators from
+   pixman-combine32.c and rely on the ones in pixman-combine-float.c. The
+   comments about how the operators were derived are still useful though,

+   so copy them into pixman-combine-float.c
 before the deletion.
+
+commit 94244b0c401f797835567a8bd165beef8f0dd820
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Sep 30 19:22:20 2013 -0400
+
+   utils.c: Set DEVIATION to 0.0128
+
+   Consider a HARD_LIGHT operation with the following pixels:
+
+   - source: 15   (6 bits)
+   - source alpha: 255   (8 bits)
+   - mask alpha: 223   (8 bits)
+   - dest   255   (8 bits)
+   - dest alpha: 0   (8 bits)
+
+   Since 2 times the source is less than source alpha, the first branch
+   of the hard light blend mode is taken:
+
+   (1 - sa) * d + (1 - da) * s + 2 * s * d
+
+   Since da is 0 and d is 1, this degenerates to:
+
+   (1 - sa) + 3 * s
+
+   Taking (src IN mask) into account along with the fact that sa is 1,
+   this becomes:
+
+   (1 - ma) + 3 * s * ma
+
+   = (1 - 223/255.0) + 3 * (15/63.0) * (223/255.0)
+
+
    = 0.7501400560224089
+
+   When computed with the source converted by bit replication to eight
+   bits, and additionally with the (src IN mask) part rounded to eight
+   bits, we get:
+
+   ma = 223/255.0
+
+   s * ma = (60 / 255.0) * (223/255.0) which rounds to 52 / 255
+
+   and the result is
+
+   (1 - ma) + 3 * s * ma
+

+ = (1 - 223/255.0) + 3 * 52/255.0
+
+ = 0.7372549019607844
+
+ so now we have an error of 0.012885.
+
+ Without making changes to the way pixman does integer
+ rounding/arithmetic, this error must then be considered
+ acceptable. Due to conservative computations in the test suite we can
+ however get away with 0.0128 as the acceptable deviation.
+
+ This fixes the remaining failures in pixel-test.
+
+commit 15aa37adeca79a22b393ff451e6d29f484c3b0ef
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sat Nov 23 19:38:50 2013 -0500
+
+ Use floating point combiners
for all operators that involve divisions
+
+ Consider a DISJOINT_ATOP operation with the following pixels:
+
+ - source: 0xff (8 bits)
+ - source alpha: 0x01 (8 bits)
+ - mask alpha: 0x7b (8 bits)
+ - dest: 0x00 (8 bits)
+ - dest alpha: 0xff (8 bits)
+
+ When (src IN mask) is computed in 8 bits, the resulting alpha channel
+ is 0 due to rounding:
+
+ floor ((0x01 * 0x7b) / 255.0 + 0.5) = floor (0.9823) = 0
+
+ which means that since Render defines any division by zero as
+ infinity, the Fa and Fb for this operator end up as follows:
+
+ Fa = max (1 - (1 - 1) / 0, 0) = 0
+
+ Fb = min (1, (1 - 0) / 1) = 1
+
+ and so since dest is 0x00, the overall result is 0.
+
+ However, when computed in full precision, the alpha value no longer
+ rounds to 0, and so Fa ends up being
+
+ Fa = max (1 - (1 - 1) / 0.0001, 0) = 1
+
+ and so the result is now

+
+ s * ma
* Fa + d * Fb
+
+ = (1.0 * (0x7b / 255.0) * 1) + d * 0
+
+ = 0x7b / 255.0
+
+ = 0.4823
+
+ so the error in this case ends up being 0.48235294, which is clearly
+ not something that can be considered acceptable.
+
+ In order to avoid this problem, we need to do all arithmetic in such a
+ way that a multiplication of two tiny numbers can never end up being
+ zero unless one of the input numbers is itself zero.
+
+ This patch makes all computations that involve divisions take place in
+ floating point, which is sufficient to fix the test cases
+
+ This brings the number of failures in pixel-test down to 14.
+
+commit 8f3824316300e257a3698daa13db802e32489236
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Mon Nov 18 13:26:33 2013 -0500
+
+ Soft Light: Consistent approach to division by zero
+
+ The Soft Light operator has several branches. One them is decided
+ based on whether 2 * s is less than or equal
to 2 * sa. In floating
+ point implementations, when those two values are very close to each
+ other, it may not be completely predictable which branch we hit.
+
+ This is a problem because in one branch, when destination alpha is
+ zero, we get the result
+
+ r = d * as
+
+ and in the other we get
+
+ r = 0
+
+ So when d and as are not 0, this causes two different results to be
+ returned from essentially identical input values. In other words,
+ there is a discontinuity in the current implementation.
+
+ This patch randomly changes the second branch such that it now returns

+   d * sa instead. There is no deep meaning behind this, because
+   essentially this is an attempt to assign meaning to division by zero,
+   and all that is requires is that that meaning doesn't depend on minute
+   differences in input values.
+
+   This makes the number of failed pixels in pixel-test go down to 347.
+
+commit 89662adf77c69c3f71ded9cd8818ac5626b68451
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 18 16:39:38 2013 -0400
+
+   pixman-combine32.c: Fix bugs related to integer promotion
+
+   In the component alpha part of the PDF_SEPARABLE_BLEND_MODE macro, the
+   expression ~RED_8 (m) is used. Because RED_8(m) gets promoted to int
+   before ~ is applied, the whole expression typically becomes some
+   negative value rather than (255 - RED_8(m)) as desired.
+
+   Fix this by using unsigned temporary variables.
+
+   This reduces the number of failures in pixel-test to 363.
+
+commit e7a99b3b0f605d3f9937bc79e4385c6b71df7845
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jan 18 22:25:36 2013 -0500
+
+   pixman/pixman-combine32.c: Bug fixes for separable blend modes
+
+   This commit fixes four separate bugs:
+
+   1. In the computation
+
+   (1 - sa) * d + (1 - da) * s + sa * da * B(s, d)
+
+   we were using regular addition
 for all four channels, but for
+   superluminescent pixels, the addition could overflow causing
+   nonsensical results.
+
+   2. The variables and return types used for the results of the blend
+   mode calculations were unsigned, but for various blend modes (and
+   especially with superluminescent pixels), the blend mode
+   calculations could be negative, resulting in underflows.
+
+   3. The blend mode computations were returned as 8-bit values, which is
+   not sufficient precision (especially considering that we need
+   signed results).

+
+   4. The value before the final division by 255 was not properly clamped
+   to [0, 255].
+
+   This patch fixes all those bugs. The blend mode computations are now
+   returned as signed 16 bit values with 1 represented as 255 * 255.
+
+   With these fixes, the number of failing pixels in pixel-test goes down
+   from 431 to 384.
+
+commit fe3504d03fafbd8462a34fbe6150254eeb1d0bcd
+Author:
 Søren Sandmann <ssp@redhat.com>
+Date: Wed Dec 4 10:06:06 2013 -0500
+
+   pixel-test.c: Add a number of pixels that have failed at some point
+
+   This commit adds a large number of pixel regressions to
+   pixel-test. All of these have at some point been failing in
+   blend-mode-test, and most of them do fail currently.
+
+   To be specific, with this commit, pixel-test reports 431 failed tests.
+
+commit bd94c1793794b5af9a191380b855f8ff24d7913b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jan 17 06:36:51 2013 -0500
+
+   test/tolerance-test: New test program
+
+   This new test program is similar to test/composite in that it relies
+   on the pixel_checker_t API to do tolerance based verification. But
+   unlike the composite test, which verifies combinations of a fixed set
+   of pixels, this one generates random images and verifies that those
+   composite correctly.
+
+   Also unlike composite, tolerance-test supports
 all the separable blend
+   mode operators in addition to the original Render operators.
+
+   When tests fail, a C struct is printed that can be pasted into
+   pixel-test for regression purposes.
+
+   There is an option "--forever" which causes the random seed to be set
+   to the current time, and then the test runs until interrupted. This is
+   useful for overnight runs.
+
+   This test currently fails badly due to various bugs in the blend mode
+   operators. Later commits will fix those.

+
+commit c2fd65dba35027a52696f497d414194514519d0f
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Wed Dec 4 10:32:29 2013 -0500
+
+   pixel-test: Command line argument to specify the regression to run
+
+   A new command line argument allows the user to specify which one of
+   the regressions should be run.
+
+commit a692e0160081ff509b40a18f6e73240bd6ef9f11
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Wed Dec 4 10:05:44 2013 -0500
+
+   pixel-test: Add support
 for mask pixels
+
+   Support is added to pixel-test for verifying operations involving
+   masks. If a regression includes a mask, it is verified with the
+   pixel_checker API in in both unified and component alpha modes.
+
+commit 779ca46e985cd2523fae630227e397e88bd892d0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Sep 30 19:22:11 2013 -0400
+
+   test/check-formats.c: Add support for separable blend modes
+
+commit a42af27fc02f792b92fd2573e38eac82a71c76d2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 19 12:24:07 2013 -0500
+
+   test/utils.c: Add support for separable blend mode ops to do_composite()
+
+   The implementations are copied from the floating point pipeline, but
+   use double precision instead of single precision.
+
+commit b29d74ef0c4164f4552da344723d3ae6f731011c
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Thu Dec 26 09:41:53 2013 -0500
+
+   configure.ac: Check and use -Wno-unused-local-typedefs GCC option
+

+   With GCC 4.8.2 the COMPILE_TIME_ASSERT macro produces a spurious
+   warning about an unused local typedef:
+
+   In file included from pixman.c:29:0:
+   pixman.c: In function 'optimize_operator':

+ pixman-private.h:1019:22: warning: typedef 'compile_time_assertion' locally defined but not used [-Wunused-local-typedefs]
+
+ The flag -Wno-unused-local-typedefs suppresses that warning.
+
+commit 945ab7a6f3eb6241f07e8f094dc0e647d1f10d9d
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Tue Dec 3 17:59:42 2013 -0500
+
+ Soft Light: The first comparison should be <=, not <
+
+ According to the definition of soft light, the first comparison is
+ less-than-or-equal, not less-than.
+
+commit 9ba3a34797399b286dbfe21c7b213a7547abf577
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sat Nov 23 20:30:33 2013 -0500
+
+ general: Support component alpha for all image types
+
+ Currently, if you attempt to use component alpha on source images or
+ images without RGB channels, Pixman will silently just use unified
+ alpha instead. This patch makes such images supported for component
+ alpha.
+
+ There is no particularly compelling usecase at the moment, but this
+ patch does get rid of a bit of special-case code both in
+ pixman-general.c and in test/composite.c.
+
+commit f473fd1e7553a4e92a0d72bea360f05d005c9a88
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sat Nov 16 18:57:01 2013 -0500
+
+ test/utils.c: Make the stack unaligned only on 32 bit Windows
+
+ The call_test_function() contains some assembly that deliberately
+ causes the stack to be aligned to 32 bits rather than 128 bits on
+ x86-32. The intention is to catch bugs that surface when pixman is
+ called from code that only uses a 32 bit alignment.
+
+ However, recent versions of GCC apparently make the assumption (either
+ accidentally or deliberately) that that the incoming stack is aligned
+
+ to 128 bits, where older versions only seemed to make this assumption
+ when compiling with -msse2. This causes the vector code in the PRNG to
+ now segfault when called from call_test_function() on x86-32.
+

+ This patch fixes that by only making the stack unaligned on 32 bit
+ Windows, where it would definitely be incorrect for GCC to assume that
+ the incoming stack is aligned to 128 bits.
+
+ V2: Put "defined(...)" around __GNUC__
+
+ Reviewed-and-Tested-by: Matt Turner <mattst88@gmail.com>
+ Bugzilla: https://bugs.gentoo.org/show_bug.cgi?id=491110
+
+commit 8487dfbcd056eff066939dc253fcf361b391592a
+Author: Jakub Bogusz <qboosh@pld-linux.org>
+Date: Tue Nov 12 12:59:42 2013 -0800
+
+ Fix the SSSE3 CPUID detection.
+
+ SSSE3 is detected by bit 9 of ECX, but we were checking bit 9 of EDX
+ which is APIC leading to SSSE3 routines being called on CPUs without
+ SSSE3.
+
+ Reviewed-by: Matt Turner <mattst88@gmail.com>
+
+commit
 741007311087be8a711cc9c76ec00e59a156c850
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Mon Nov 11 19:13:31 2013 -0500
+
+ demos/Makefile.am: Move EXTRA_DIST outside "if HAVE_GTK"
+
+ Without this, if tarballs are generated on a system that doesn't have
+ GTK+ 2 development headers available, the files in EXTRA_DIST will not
+ be included, which then causes builds from the tarball to fail on
+ systems that do have GTK+ 2 headers available.
+
+ Fixes https://bugs.freedesktop.org/show_bug.cgi?id=71465
+
+commit 9bab46e9b8df1b061e993546414ed7d69e7b2058
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Mon Nov 11 11:21:23 2013 +0100
+
+ test: Fix the win32 build
+
+ The win32 build has no config.h, so HAVE_CONFIG_H should be checked
+ before including it, as in utils.h.
+
+commit ca5a4dec44afe5769e2ca99dbc7e5e66fa1fe272
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sun Nov 10 18:17:12 2013 -0500
+

+   Post-release version bump to 0.33.1
+
+commit
 895e7e05b7a51a8d578c523bf6c0c6649e06ab5e
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sun Nov 10 18:05:47 2013 -0500
+
+   Pre-release version bump to 0.32.0
+
+commit 8cbc7da4e525c96a8e089e4c1baee75dc8315218
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Nov 1 20:52:00 2013 -0400
+
+   Post-release version bump to 0.31.3
+
+commit 99e8605be08d4fa46eabf76355fc4e953f60b44f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Nov 1 20:39:46 2013 -0400
+
+   Pre-release version bump to 0.31.2
+
+commit 5e14da97f16e421d084a9e735be21b1025150f0c
+Author: Ritesh Khadgaray <khadgaray@gmail.com>
+Date: Wed Oct 23 17:29:07 2013 -0400
+
+   pixman_trapezoid_valid(): Fix underflow when bottom is close to MIN_INT
+
+   If t->bottom is close to MIN_INT (probably invalid value), subtracting
+   top can lead to underflow which causes crashes. Attached patch will
+   fix the issue.
+
+   This fixes bug 67484.
+
+commit 2f876cf86718d3dd9b3b04ae9552530edafe58a1
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 23 17:28:11 2013 -0400
+
+   test/trap-crasher.c: Add trapezoid that demonstrates a crash
+
+   This trapezoid causes a crash due to an underflow in the
+   pixman_trapezoid_valid().
+
+   Test case from Ritesh Khadgaray.
+
+commit 8ef7e0d18e00291da14c69d3034896235875d019
+Author: Brad Smith <brad@comstyle.com>
+Date: Thu Oct 17 23:22:02 2013 -0400

+
+   Fix pixman build with older GCC releases
+
+   The following patch fixes building pixman with older GCC releases
+   such as GCC 3.3 and older (OpenBSD; some older archs use GCC 3.3.6)
+   by changing the method of detecting the presence of __builtin_clz
+   to utilizing an autoconf check to determine its presence. Compilers
+   that pretend to be GCC, implement __builtin_clz and are already
+   utilizing the intrinsic include LLVM/Clang, Open64, EKOPath and
+   PCC.
+
+commit 3c2f4b651747c1ac484c39d5128cae5483094342
+Author: Søren
 Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 11 00:49:44 2013 -0400
+
+   pixman-glyph.c: Add __force_align_arg_pointer to composite functions
+
+   The functions pixman_composite_glyphs_no_mask() and
+   pixman_composite_glyphs() can call into code compiled with -msse2,
+   which requires the stack to be aligned to 16 bytes. Since the ABIs on
+   Windows and Linux for x86-32 don't provide this guarantee, we need to
+   use this attribute to make GCC generate a prologue that realigns the
+   stack.
+
+   This fixes the crash introduced in the previous commit and also
+
+   https://bugs.freedesktop.org/show_bug.cgi?id=70348
+
+   and
+
+   https://bugs.freedesktop.org/show_bug.cgi?id=68300
+
+commit 3dce229772354877ef297dd9979097fe8ebaebf4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 2 14:38:16 2013 -0400
+
+   utils.c: On x86-32 unalign the stack before calling test_function
+
+   GCC when compiling with -msse2
 and -mssse3 will assume that the stack
+   is aligned to 16 bytes even on x86-32 and accordingly issue movdqa
+   instructions for stack allocated variables.
+
+   But despite what GCC thinks, the standard ABI on x86-32 only requires
+   a 4-byte aligned stack. This is true at least on Windows, but there
+   also was (and maybe still is) Linux code in the wild that assumed
+   this. When such code calls into pixman and hits something compiled

+ with -msse2, we get a segfault from the unaligned movdqas.
+
+ Pixman has worked around this issue in the past with the gcc attribute
+ "force_align_arg_pointer" but the problem has resurfaced now in
+
+ https://bugs.freedesktop.org/show_bug.cgi?id=68300
+
+ because pixman_composite_glyphs() is missing this attribute.
+
+ This patch makes fuzzer_test_main() call the test_function through a
+ trampoline, which, on x86-32, has a bit of assembly that deliberately
+ avoids aligning the stack to
16 bytes as GCC normally expects. The
+ result is that glyph-test now crashes.
+
+ V2: Mark caller-save registers as clobbered, rather than using
+ noinline on the trampoline.
+
+commit 9e81419ed5c0ee490ddacf7bada516a25cae87eb
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Oct 5 22:00:26 2013 +0300
+
+ configure.ac: check and use -Wdeclaration-after-statement GCC option
+
+ The accidental use of declaration after statement breaks compilation
+ with C89 compilers such as MSVC. Assuming that MSVC is one of the
+ supported compilers, it makes sense to ask GCC to at least report
+ warnings for such problematic code.
+
+commit a863bbcce0924f8d4004a352c670a9f774012463
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Wed Oct 2 00:54:30 2013 +0000
+
+ sse2: bilinear fast path for src_x888_8888
+
+ Running cairo-perf-trace benchmark on Intel Core2 T7300:
+
+ Before:
+ [0] image t-firefox-canvas-swscroll
1.989 2.008 0.43% 8/8
+ [1] image firefox-canvas-scroll 4.574 4.609 0.50% 8/8
+
+ After:
+ [0] image t-firefox-canvas-swscroll 1.404 1.418 0.51% 8/8
+ [1] image firefox-canvas-scroll 4.228 4.259 0.36% 8/8
+
+commit 8f75f638ab03078546cc89edfbec4f6801b77e5e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>

```
+Date:   Wed Oct 9 22:12:23 2013 -0400
+
+    configure.ac: Add check for pmulhuw assembly
+
+    Clang 3.0 chokes on the following bit of assembly
+
+        asm ("pmulhuw %1, %0\n\t"
+             : "+y" (__A)
+             : "y" (__B)
+        );
+
+    from pixman-mmx.c with this error message:
+
+        fatal error: error in backend: Unsupported asm: input constraint
+            with a matching output constraint of incompatible type!
+
+    So add a check in configure to only enable MMX when the compiler can
+    deal with it.
+
+commit 09a62d4dbc9a1a86ef7671c2abc9b7f753b86f64
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Wed Oct 9 22:05:59 2013 -0400
+
+    scale.c: Use int instead of kernel_t for values in named_int_t
+
+    The 'value' field in the 'named_int_t' struct is used for both
+    pixman_repeat_t and pixman_kernel_t values, so the type should be int,
+    not pixman_kernel_t.
+
+    Fixes some warnings like this
+
+    scale.c:124:33: warning: implicit conversion from enumeration
+          type 'pixman_repeat_t' to different enumeration type
+          'pixman_kernel_t' [-Wconversion]
+        { "None",                 PIXMAN_REPEAT_NONE },
+        ~                         ^~~~~~~~~~~~~~~~~~
+
+    when compiled with clang.
+
+commit 93672438012b63f585dfcd76992099740e0500b8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Fri Oct 4 16:45:21 2013 -0400
+
+    pixman-combine32.c: Make Color Burn routine follow the math more closely
+
+    For superluminescent destinations, the old code
```

 could underflow in
+
+   uint32_t r = (ad - d) * as / s;
+
+   when (ad - d) was negative. The new code avoids this problem (and
+   therefore causes changes in the checksums of thread-test and
+   blitters-test), but it is likely still buggy due to the use of
+   unsigned variables and other issues in the blend mode code.
+
+commit 105fa74faddcb83e7779c035f8c41ec4924acfd8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 4 16:40:17 2013 -0400
+
+   pixman-combine32: Make Color Dodge routine follow the math more closely
+
+   Change blend_color_dodge() to follow the math in the comment more
+   closely.
+
+   Note, the new code here is in some sense worse than the old code
+   because it can now underflow the unsigned variables when the source is
+   superluminescent and (as - s) is therefore negative. The old code was
+   careful to clamp to 0.
+
+   But for superluminescent variables we really need the ability for the
+   blend
 function to become negative, and so the solution the underflow
+   problem is to just use signed variables. The use of unsigned variables
+   is a general problem in all of the blend mode code that will have to
+   be solved later.
+
+   The CRC32 values in thread-test and blitters-test are updated to
+   account for the changes in output.
+
+commit 2527a72432adcaa9752a9138272d53063ee7484f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 4 16:35:35 2013 -0400
+
+   pixman-combine32: Rename a number of variable from sa/sca to as/s
+
+   There are no semantic changes, just variables renames. The motivation
+   for these renames is so that the names are shorter and better match
+   the one used in the comments.
+
+commit eaa4778c42557c7cb9f081c861f8c22b24298db8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 4 16:27:39 2013 -0400
+
+   pixman-combine32: Improve documentation for blend mode operators

+
+   This commit overhauls
 the comments in pixman-comine32.c regarding
+   blend modes:
+
+   - Add a link to the PDF supplement that clarifies the specification of
+   ColorBurn and ColorDodge
+
+   - Clarify how the formulas for premultiplied colors are derived form
+   the ones in the PDF specifications
+
+   - Write out the derivation of the formulas in each blend routine
+
+commit 4bf1502fe81e740cb2bb8f0b538967513dd8e4e5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 4 16:40:23 2013 -0400
+
+   pixman-combine32.c: Formatting fixes
+
+   Fix a bunch of spacing issues.
+
+   V2: More spacing issues, in the _ca combiners
+
+commit 54be1a52f710b8b4abb05c074c066c389d8f89a8
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Oct 9 18:23:27 2013 +0200
+
+   Fix thread-test on non-OpenMP systems
+
+   The non-reentrant versions of prng_* functions are thread-safe only in
+   OpenMP-enabled builds.
+
+   Fixes thread-test failing when compiled with
 Clang (both on Linux and
+   on MacOS).
+
+commit 0af2fcaebc4835ecf52d6002fcaacb09cbbcbaad
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Sep 26 09:23:41 2013 +0200
+
+   Add support for SSSE3 to the MSVC build system
+
+   Handle SSSE3 just like MMX and SSE2.
+
+commit e4d9c623d3baee50a5bfbc87cba81b0d2d87ee26
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Sep 26 09:26:17 2013 +0200
+

+   Fix build of check-formats on MSVC
+
+   Fixes
+
+   check-formats.obj : error LNK2019: unresolved external symbol
+   _strcasecmp referenced in function _format_from_string
+
+   check-formats.obj : error LNK2019: unresolved external symbol
+   _snprintf referenced in function _list_operators
+
+commit 96ad6ebd8b8481aaa603d14953edb96504658eb7
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Sep 26 09:12:31 2013 +0200
+
+   Fix building of "other" programs on MSVC
+
+   In d1434d112ca5cd325e4fb85fc60afd1b9e902786 the benchmarks have been
+
    extended to include other programs as well and the variable names have
+   been updated accordingly in the autotools-based build system, but not
+   in the MSVC one.
+
+commit 31ac784f3427a189e34ef6fdc937441b613407b9
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Sep 26 09:16:41 2013 +0200
+
+   Fix build on MSVC
+
+   After a4c79d695d52c94647b1aff78548e5892d616b70 the MMX and SSE2 code
+   has some declarations after the beginning of a block, which is not
+   allowed by MSVC.
+
+   Fixes multiple errors like:
+
+   pixman-mmx.c(3625) : error C2275: '__m64' : illegal use of this type
+   as an expression
+
+   pixman-sse2.c(5708) : error C2275: '__m128i' : illegal use of this
+   type as an expression
+
+commit c89f4c826695dbb5df0817d84f845dbd3e28b7a7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 2 17:51:36 2013 -0400
+
+   fast: Swap image and iter flags in generated fast paths
+
+   The generated fast paths that

were moved into the 'fast'
+   implementation in ec0e38cbb746a673f8e989ab8eae356c8c77dac7 had their
+   image and iter flag arguments swapped; as a result, none of the fast
+   paths were ever called.
+
+commit 7d05a7f4dc825f9c778e534fdabb749199c2e439
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Sep 28 04:51:21 2013 +0300
+
+   vmx: there is no need to handle unaligned destination anymore
+
+   So the redundant variables, memory reads/writes and reshuffles
+   can be safely removed. For example, this makes the inner loop
+   of 'vmx_combine_add_u_no_mask' function much more simple.
+
+   Before:
+
+   7a20:7d a8 48 ce lvx   v13,r8,r9
+   7a24:7d 80 48 ce lvx   v12,r0,r9
+   7a28:7d 28 50 ce lvx   v9,r8,r10
+   7a2c:7c 20 50 ce lvx   v1,r0,r10
+   7a30:39 4a 00 10 addi   r10,r10,16
+   7a34:10 0d 62 eb vperm   v0,v13,v12,v11
+   7a38:10 21 4a 2b vperm   v1,v1,v9,v8
+   7a3c:11 2c 6a eb vperm
 v9,v12,v13,v11
+   7a40:10 21 4a 00 vaddubs v1,v1,v9
+   7a44:11 a1 02 ab vperm   v13,v1,v0,v10
+   7a48:10 00 0a ab vperm   v0,v0,v1,v10
+   7a4c:7d a8 49 ce stvx   v13,r8,r9
+   7a50:7c 00 49 ce stvx   v0,r0,r9
+   7a54:39 29 00 10 addi   r9,r9,16
+   7a58:42 00 ff c8 bdnz+   7a20 <.vmx_combine_add_u_no_mask+0x120>
+
+   After:
+
+   76c0:7c 00 48 ce lvx   v0,r0,r9
+   76c4:7d a8 48 ce lvx   v13,r8,r9
+   76c8:39 29 00 10 addi   r9,r9,16
+   76cc:7c 20 50 ce lvx   v1,r0,r10
+   76d0:10 00 6b 2b vperm   v0,v0,v13,v12
+   76d4:10 00 0a 00 vaddubs v0,v0,v1
+   76d8:7c 00 51 ce stvx   v0,r0,r10
+   76dc:39 4a 00 10 addi   r10,r10,16
+   76e0:42 00 ff e0 bdnz+   76c0 <.vmx_combine_add_u_no_mask+0x120>
+
+commit b6c5ba06f0c5c0bd8d186e7a4879fd3b33e7e13f
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>

+Date: Sat Sep 28 03:48:07 2013 +0300
+
+   vmx: align destination to fix valgrind
 invalid memory writes
+
+   The SIMD optimized inner loops in the VMX/Altivec code are trying
+   to emulate unaligned accesses to the destination buffer. For each
+   4 pixels (which fit into a 128-bit register) the current
+   implementation:
+   1. first performs two aligned reads, which cover the needed data
+   2. reshuffles bytes to get the needed data in a single vector register
+   3. does all the necessary calculations
+   4. reshuffles bytes back to their original location in two registers
+   5. performs two aligned writes back to the destination buffer
+
+   Unfortunately in the case if the destination buffer is unaligned and
+   the width is a perfect multiple of 4 pixels, we may have some writes
+   crossing the boundaries of the destination buffer. In a multithreaded
+   environment this may potentially corrupt the data outside of the
+   destination buffer if it is concurrently read and written by some
+   other thread.
+
+   The
 valgrind report for blitters-test is full of:
+
+   ==23085== Invalid write of size 8
+   ==23085==   at 0x1004B0B4: vmx_combine_add_u (pixman-vmx.c:1089)
+   ==23085==   by 0x100446EF: general_composite_rect (pixman-general.c:214)
+   ==23085==   by 0x10002537: test_composite (blitters-test.c:363)
+   ==23085==   by 0x1000369B: fuzzer_test_main._omp_fn.0 (utils.c:733)
+   ==23085==   by 0x10004943: fuzzer_test_main (utils.c:728)
+   ==23085==   by 0x10002C17: main (blitters-test.c:397)
+   ==23085== Address 0x5188218 is 0 bytes after a block of size 88 alloc'd
+   ==23085==   at 0x4051DA0: memalign (vg_replace_malloc.c:581)
+   ==23085==   by 0x4051E7B: posix_memalign (vg_replace_malloc.c:709)
+   ==23085==   by 0x10004CFF: aligned_malloc (utils.c:833)
+   ==23085==   by 0x10001DCB: create_random_image (blitters-test.c:47)
+   ==23085==   by 0x10002263: test_composite (blitters-test.c:283)
+   ==23085==   by 0x1000369B: fuzzer_test_main._omp_fn.0 (utils.c:733)
+
    ==23085==   by 0x10004943: fuzzer_test_main (utils.c:728)
+   ==23085==   by 0x10002C17: main (blitters-test.c:397)
+
+   This patch addresses the problem by first aligning the destination
+   buffer at a 16 byte boundary in each combiner function. This trick
+   is borrowed from the pixman SSE2 code.
+
+   It allows to pass the new thread-test on PowerPC VMX/Altivec systems and

+ also resolves the "make check" failure reported for POWER7 hardware:
+ http://lists.freedesktop.org/archives/pixman/2013-August/002871.html
+
+commit 0438435b9c915b61af21446b2cb2f77a2b98a3b9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 28 01:10:24 2013 -0400
+
+ test: Add new thread-test program
+
+ This test program allocates an array of 16 * 7 uint32_ts and spawns 16
+ threads that each use 7 of the allocated uint32_ts as a destination
+ image for a large number of composite operations. Each thread then
+ computes and returns a checksum
for the image. Finally, the main
+ thread computes a checksum of the checksums and verifies that it
+ matches expectations.
+
+ The purpose of this test is catch errors where memory outside images
+ is read and then written back. Such out-of-bounds accesses are broken
+ when multiple threads are involved, because the threads will race to
+ read and write the shared memory.
+
+ V2:
+ - Incorporate fixes from Siarhei for endianness and undefined behavior
+ regarding argument evaluation
+ - Make the images 7 pixels wide since the bug only happens when the
+ composite width is greater than 4.
+ - Compute a checksum of the checksums so that you don't have to
+ update 16 values if something changes.
+
+ V3: Remove stray dollar sign
+
+commit 65829504073425362fc56995a1dcc8cc464b751a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 28 01:03:55 2013 -0400
+
+ Rename HAVE_PTHREAD_SETSPECIFIC to HAVE_PTHREADS
+

+ The test for pthread_setspecific() can be used as a general test for
+ whether pthreads are available, so rename the variable from
+ HAVE_PTHREAD_SETSPECIFIC to HAVE_PTHREADS and run the test even when
+ better support for thread local variables are available.
+
+ However, the pthread arguments are still only added to CFLAGS and
+ LDFLAGS when pthread_setspecific() is used for thread local variables.
+
+ V2: AC_SUBST(PTHREAD_CFLAGS)

+
+commit b513b3dffe979056dbbbdc8e0659f8018c51c5f5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 29 16:47:53 2013 -0400
+
+   blitters-test: Remove unused variable
+
+commit fa0559eb710ef6252dea5a70ade28a2c167a7a85
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 26 18:56:07 2013 -0400
+
+   utils.c: Make image_endian_swap() deal with negative strides
+
+   Use a temporary variable s containing the absolute value of the stride
+   as the upper bound in the inner loops.
+

+   V2: Do this for the bpp == 16 case as well
+
+commit ff682089ce1128079c06827a80647fa3284ca2a2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Sep 20 02:45:32 2013 -0400
+
+   utils.c: Make print_image actually cope with negative strides
+
+   Commit 4312f077365bf9f59423b1694136089c6da6216b claimed to have made
+   print_image() work with negative strides, but it didn't actually
+   work. When the stride was negative, the image buffer would be accessed
+   as if the stride were positive.
+
+   Fix the bug by not changing the stride variable and instead using a
+   temporary, s, that contains the absolute value of stride.
+
+commit ec0e38cbb746a673f8e989ab8eae356c8c77dac7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 31 16:54:51 2013 -0400
+
+   Move generated affine fetchers into pixman-fast-path.c
+
+   The generated fetchers for NEAREST, BILINEAR, and
+   SEPARABLE_CONVOLUTION filters are fast paths and so they belong in
+
    pixman-fast-path.c
+
+commit 96e163d2fd1f8127ad15df3785bb85b4bc7f8e9a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 31 16:40:43 2013 -0400
+

+   Move bits_image_fetch_bilinear_no_repeat_8888 into pixman-fast-path.c
+
+   This iterator is really a fast path, so it belongs in the fast path
+   implementation.
+
+commit 8d465c2a5d62affc8bdc54980f7c1de9355d1fd5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Sep 11 00:24:23 2013 -0400
+
+   fast, ssse3: Simplify logic to fetch lines in the bilinear iterators
+
+   Instead of having logic to swap the lines around when one of them
+   doesn't match, store the two lines in an array and use the least
+   significant bit of the y coordinate as the index into that
+   array. Since the two lines always have different least significant
+   bits, they will never collide.
+
+   The effect is that lines corresponding to even y coordinates are
+   stored in info->lines[0] and lines corresponding
 to odd y coordinates
+   are stored in info->lines[1].
+
+commit aa5c45254eb60ce4c85a25b5343474fb160ffa7c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Sep 11 22:17:33 2013 -0400
+
+   test: Test negative strides
+
+   Pixman supports negative strides, but up until now they haven't been
+   tested outside of stress-test. This commit adds testing of negative
+   strides to blitters-test, scaling-test, affine-test, rotate-test, and
+   composite-traps-test.
+
+commit 4312f077365bf9f59423b1694136089c6da6216b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 12 12:52:02 2013 -0400
+
+   test: Share the image printing code
+
+   The affine-test, blitters-test, and scaling-test all have the ability
+   to print out the bytes of the destination image. Share this code by
+   moving it to utils.c.
+
+   At the same time make the code work correctly with negative strides.
+
+commit 51d71354568a54114ced87d8ae1529c88a53f635
+Author:

Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 12 12:24:52 2013 -0400
+
+   {scaling,affine,composite-traps}-test: Use compute_crc32_for_image()
+
+   By using this function instead of compute_crc32() the alpha masking
+   code and the call to image_endian_swap() are not duplicated.
+
+commit 75506e63677208c1ec4364ab1a4b4fb73a0ca6c8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 10 09:44:40 2013 -0400
+
+   pixman-filter.c: Use 65536, not 65535, for fixed point conversion
+
+   Converting a double precision number to 16.16 fixed point should be
+   done by multiplying with 65536.0, not 65535.0.
+
+   The bug could potentially cause certain filters that would otherwise
+   leave the image bit-for-bit unchanged under an identity
+   transformation, to not do so, but the numbers are close enough that
+   there weren't any visual differences.
+
+commit 9899a7bae8a00c6a92ed27d4dc2fe6f178c8acc8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Tue Sep 10 09:37:38 2013 -0400
+
+   demos/scale.ui: Allow subsample_bits to be 0
+
+   The separable convolution filter supports a subsample_bits of 0 which
+   corresponds to no subsampling at all, so allow this value to be used
+   in the scale demo.
+
+commit 58a79dfe6d1fd62c2b66c69fdb64f6b8ecf61da5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jun 6 16:15:39 2013 -0400
+
+   ssse3: Add iterator for separable bilinear scaling
+
+   This new iterator uses the SSSE3 instructions pmaddubsw and pabsw to
+   implement a fast iterator for bilinear scaling.
+
+   There is a graph here recording the per-pixel time for various
+   bilinear scaling algorithms as reported by scaling-bench:
+
+   http://people.freedesktop.org/~sandmann/ssse3.v2/ssse3.v2.png
+
+   As the graph shows, this new iterator is clearly faster than the

+ existing C iterator, and when used with an SSE2 combiner, it is also
+ faster than the existing
 SSE2 fast paths for upscaling, though not for
+ downscaling.
+
+ Another graph:
+
+ http://people.freedesktop.org/~sandmann/ssse3.v2/movdqu.png
+
+ shows the difference between writing to iter->buffer with movdqa,
+ movdqu on an aligned buffer, and movdqu on a deliberately unaligned
+ buffer. Since the differences are very small, the patch here avoids
+ using movdqa because imposing alignment restrictions on iter->buffer
+ may interfere with other optimizations, such as writing directly to
+ the destination image.
+
+ The data was measured with scaling-bench on a Sandy Bridge Core
+ i3-2350M @ 2.3GHz and is available in this directory:
+
+ http://people.freedesktop.org/~sandmann/ssse3.v2/
+
+ where there is also a Gnumeric spreadsheet ssse3.v2.gnumeric
+ containing the per-pixel values and the graph.
+
+ V2:
+ - Use uintptr_t instead of unsigned long in the ALIGN macro
+ - Use _mm_storel_epi64 instead
 of _mm_cvtsi128_si64 as the latter form
+ is not available on x86-32.
+ - Use _mm_storeu_si128() instead of _mm_store_si128() to avoid
+ imposing alignment requirements on iter->buffer
+
+commit f1792b32215d3b62084ee99fca5c448f1c7f8e1d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jun 6 16:32:59 2013 -0400
+
+ Add empty SSSE3 implementation
+
+ This commit adds a new, empty SSSE3 implementation and the associated
+ build system support.
+
+ configure.ac: detect whether the compiler understands SSSE3
+ intrinsics and set up the required CFLAGS
+
+ Makefile.am: Add libpixman-ssse3.la
+
+ pixman-x86.c: Add X86_SSSE3 feature flag and detect it in
+ detect_cpu_features().

+
+   pixman-ssse3.c: New file with an empty SSSE3 implementation
+
+   V2: Remove SSSE3_LDFLAGS since it isn't necessary unless Solaris
+   support is added.
+
+commit f10b5449a8b22a26839c58a716b74d6b7a8bcb80
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 28 15:36:13 2013 -0400
+
+   general: Ensure that iter buffers are aligned to 16 bytes
+
+   At the moment iter buffers are only guaranteed to be aligned to a 4
+   byte boundary. SIMD implementations benefit from the buffers being
+   aligned to 16 bytes, so ensure this is the case.
+
+   V2:
+   - Use uintptr_t instead of unsigned long
+   - allocate 3 * SCANLINE_BUFFER_LENGTH byte on stack rather than just
+   SCANLINE_BUFFER_LENGTH
+   - use sizeof (stack_scanline_buffer) instead of SCANLINE_BUFFER_LENGTH
+   to determine overflow
+
+commit 700db9d872bdc49399a95565ffe0d345db11717a
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Tue Sep 3 04:39:54 2013 +0300
+
+   sse2: faster bilinear scaling (pack 4 pixels to write with MOVDQA)
+
+   The loops are already unrolled, so it was just a matter of packing
+   4 pixels into a single XMM register and doing aligned 128-bit
+
   writes to memory via MOVDQA instructions for the SRC compositing
+   operator fast path. For the other fast paths, this XMM register
+   is also directly routed to further processing instead of doing
+   extra reshuffling. This replaces "8 PACKSSDW/PACKUSWB + 4 MOVD"
+   instructions with "3 PACKSSDW/PACKUSWB + 1 MOVDQA" per 4 pixels,
+   which results in a clear performance improvement.
+
+   There are also some other (less important) tweaks:
+
+   1. Convert 'pixman_fixed_t' to 'intptr_t' before using it as an
+   index for addressing memory. The problem is that 'pixman_fixed_t'
+   is a 32-bit data type and it has to be extended to 64-bit
+   offsets, which needs extra instructions on 64-bit systems.
+
+   2. Allow to recalculate the horizontal interpolation weights only

```
+      once per 4 pixels by treating the XMM register as four pairs
+      of 16-bit values. Each of these 16-bit/16-bit pairs can be
+      replicated to fill the whole
 128-bit register by using PSHUFD
+      instructions. So we get "3 PADDW/PSRLW + 4 PSHUFD" instructions
+      per 4 pixels instead of "12 PADDW/PSRLW" per 4 pixels
+      (or "3 PADDW/PSRLW" per each pixel).
+
+      Now a good question is whether replacing "9 PADDW/PSRLW" with
+      "4 PSHUFD" is a favourable exchange. As it turns out, PSHUFD
+      instructions are very fast on new Intel processors (including
+      Atoms), but are rather slow on the first generation of Core2
+      (Merom) and on the other processors from that time or older.
+      A good instructions latency/throughput table, covering all the
+      relevant processors, can be found at:
+          http://www.agner.org/optimize/instruction_tables.pdf
+
+      Enabling this optimization is controlled by the PSHUFD_IS_FAST
+      define in "pixman-sse2.c".
+
+   3. One use of PSHUFD instruction (_mm_shuffle_epi32 intrinsic) in
+      the older code has been also replaced by PUNPCKLQDQ equivalent
+
      (_mm_unpacklo_epi64 intrinsic) in PSHUFD_IS_FAST=0 configuration.
+      The PUNPCKLQDQ instruction is usually faster on older processors,
+      but has some side effects (instead of fully overwriting the
+      destination register like PSHUFD does, it retains half of the
+      original value, which may inhibit some compiler optimizations).
+
+   Benchmarks with "lowlevel-blt-bench -b src_8888_8888" using GCC 4.8.1 on
+   x86-64 system and default optimizations. The results are in MPix/s:
+
+   ====== Intel Core2 T7300 (2GHz) ======
+
+   old:                 src_8888_8888 =  L1: 128.69  L2: 125.07  M:124.86
+                      over_8888_8888 =  L1:  83.19  L2:  81.73  M: 80.63
+                    over_8888_n_8888 =  L1:  79.56  L2:  78.61  M: 77.85
+                    over_8888_8_8888 =  L1:  77.15  L2:  75.79  M: 74.63
+
+   new (PSHUFD_IS_FAST=0):  src_8888_8888 =  L1: 168.67  L2: 163.26  M:162.44
+
          over_8888_8888 =  L1: 102.91  L2: 100.43  M: 99.01
+                    over_8888_n_8888 =  L1:  97.40  L2:  95.64  M: 94.24
+                    over_8888_8_8888 =  L1:  98.04  L2:  95.83  M: 94.33
+
+   new (PSHUFD_IS_FAST=1):  src_8888_8888 =  L1: 154.67  L2: 149.16  M:148.48
+                      over_8888_8888 =  L1:  95.97  L2:  93.90  M: 91.85
+                    over_8888_n_8888 =  L1:  93.18  L2:  91.47  M: 90.15
```

```
+                    over_8888_8_8888 =  L1:  95.33  L2:  93.32  M: 91.42
+
+   ====== Intel Core i7 860 (2.8GHz) ======
+
+   old:                 src_8888_8888 =  L1: 323.48  L2: 318.86  M:314.81
+                       over_8888_8888 =  L1: 187.38  L2: 186.74  M:182.46
+
+   new (PSHUFD_IS_FAST=0):  src_8888_8888 =  L1: 373.06  L2: 370.94  M:368.32
+                       over_8888_8888 =  L1: 217.28  L2: 215.57  M:211.32
+
+   new (PSHUFD_IS_FAST=1):  src_8888_8888 =  L1: 401.98
 L2: 397.65  M:395.61
+                       over_8888_8888 =  L1: 218.89  L2: 217.56  M:213.48
+
+   The most interesting benchmark is "src_8888_8888" (because this code can
+   be reused for a generic non-separable SSE2 bilinear fetch iterator).
+
+   The results shows that PSHUFD instructions are bad for Intel Core2 T7300
+   (Merom core) and good for Intel Core i7 860 (Nehalem core). Both of these
+   processors support SSSE3 instructions though, so they are not the primary
+   targets for SSE2 code. But without having any other more relevant hardware
+   to test, PSHUFD_IS_FAST=0 seems to be a reasonable default for SSE2 code
+   and old processors (until the runtime CPU features detection becomes
+   clever enough to recognize different microarchitectures).
+
+   (Rebased on top of patch that removes support for 8-bit bilinear
+    filtering -ssp)
+
+commit e43cc9c9024957dcc7f160f6abe7be218667dfa2
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:
  Thu Sep 5 08:07:52 2013 +0300
+
+   test: safeguard the scaling-bench test against COW
+
+   The calloc call from pixman_image_create_bits may still
+   rely on http://en.wikipedia.org/wiki/Copy-on-write
+   Explicitly initializing the destination image results in
+   a more predictable behaviour.
+
+   V2:
+    - allocate 16 bytes aligned buffer with aligned stride instead
+      of delegating this to pixman_image_create_bits
+    - use memset for the allocated buffer instead of pixman solid fill
+    - repeat tests 3 times and select best results in order to filter
+      out even more measurement noise
+
+commit a4c79d695d52c94647b1aff78548e5892d616b70
```

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Sep 4 22:32:15 2013 -0400
+
+   Drop support for 8-bit precision in bilinear filtering
+
+   The default has been 7-bit for a while now, and the quality
+   improvement with 8-bit precision is not enough to justify keeping the
+   code
 around as a compile-time option.
+
+commit 80a232db68fcff6460e8704da6a97ee2e6971e99
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 31 22:59:53 2013 -0400
+
+   Make the first argument to scanline fetchers have type bits_image_t *
+
+   Scanline fetchers haven't been used for images other than bits for a
+   long time, so by making the type reflect this fact, a bit of casting
+   can be saved in various places.
+
+commit 8ad63f90cd8392a40f115c56b16c54d45012070e
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue Jul 30 13:22:29 2013 -0700
+
+   iwmmxt: Disallow if gcc version is < 4.8.
+
+   Later versions of gcc-4.7.x are capable of generating iwMMXt
+   instructions properly, but gcc-4.8 contains better support and other
+   fixes, including iwMMXt in conjunction with hardfp. The existing 4.5
+   requirement was based on attempts to have OLPC use a patched gcc to
+   build pixman. Let's just require gcc-4.8.
+
+commit 02906e57bd801e20b3094ca348fad563c6b5a922
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 28 00:38:22 2013 -0400
+
+   fast_bilinear_cover_init: Don't install a finalizer on the error path
+
+   No memory is allocated in the error case, so a finalizer is not
+   necessary, and will cause problems if the data pointer is not
+   initialized to NULL.
+
+commit 3518a0dafa63098d41e466f73d105b7e3e4b12de
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu May 24 02:49:05 2012 -0400
+
+   Add an iterator that can fetch bilinearly scaled images

+
+ This new iterator works in a separable way; that is, for a destination
+ scaline, it scales the two involved source scanlines and then caches
+ them so that they can be reused for the next destination scanlines.
+
+ There are two versions of the code, one that uses 64 bit arithmetic,
+ and one that uses 32 bit arithmetic only. The latter version is
+ used on 32 bit systems, where it is expected to be faster.
+

+ This scheme saves a substantial amount of arithmetic for larger
+ scalings; the per-pixel times for various configurations as reported
+ by scaling-bench are graphed here:
+
+ http://people.freedesktop.org/~sandmann/separable.v2/v2.png
+
+ The "sse2" graph is current default on x86, "mmx" is with sse2
+ disabled, "old c" is with sse2 and mmx disabled. The "new 32" and "new
+ 64" graphs show times for the new code. As the graphs show, the 64 bit
+ version of the new code beats the "old c" for all scaling ratios.
+
+ The data was taken on a Sandy Bridge Core i3-2350M CPU @ 2.0 GHz
+ running in 64 bit mode.
+
+ The data used to generate the graph is available in this directory:
+
+ http://people.freedesktop.org/~sandmann/separable.v2/
+
+ There is also a Gnumeric spreadsheet v2.gnumeric containing the
+ per-pixel values and the graph.
+
+ V2:
+ - Add error message in the OOM/bad matrix case
+ - Save
some shifts by storing the cached scanlines in AGBR order
+ - Special cased version that uses 32 bit arithmetic when sizeof(long) <= 4
+
+commit 146116eff4874500e4499e4bf4954c8e6b9c174a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri May 25 11:38:41 2012 -0400
+
+ Add support for iter finalizers
+
+ Iterators may sometimes need to allocate auxillary memory. In order to
+ be able to free this memory, optional iterator finalizers are
+ required.
+
+commit 1be9208e0404fcf41b4e83734d8e33437f50c2bd

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed May 22 18:48:08 2013 -0400
+
+   test/scaling-bench.c: New benchmark for bilinear scaling
+
+   This new benchmark scales a 320 x 240 test a8r8g8b8 image by all
+   ratios from 0.1, 0.2, ... up to 10.0 and reports the time it to took
+   to do each of the scaling operations, and the time spent per
+   destination pixel.
+
+   The times reported for the scaling operations are given in
+
  milliseconds, the times-per-pixel are in nanoseconds.
+
+   V2: Format output better
+
+commit fedd6b192d4b30dcf4ecabed43a5ddbfe6007629
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 7 10:21:20 2013 -0400
+
+   RELEASING: Add note about changing the topic of the #cairo IRC channel
+
+commit d87601ffc3d1583528ce52448fbb3659d0b1d1b0
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Jul 27 19:25:32 2013 +0300
+
+   test: fix matrix-test on big endian systems
+
+commit 1e4932933342140402f744631f2a87b867162806
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Jul 17 16:14:20 2012 +0200
+
+   test: Fix build on MSVC
+
+   The MSVC compiler is very strict about variable declarations after
+   statements.
+
+   Move all the declarations of each block before any statement in the
+   same block to fix multiple instances of:
+
+   alpha-loop.c(XX) : error C2275: 'pixman_image_t' : illegal use of this
+   type as an expression
+
+commit
 279bdcda7ec3af8ac06312f4514b1b082a279544
+Author: Alexander Troosh <trush@yandex.ru>
+Date: Tue Jun 11 15:55:34 2013 +0400
+

+ Require GTK+ version >= 2.16
+
+ I'm got bug in my system:
+
+ lcc: "scale.c", line 374: warning: function "gtk_scale_add_mark" declared
+ implicitly [-Wimplicit-function-declaration]
+ gtk_scale_add_mark (GTK_SCALE (widget), 0.0, GTK_POS_LEFT, NULL);
+ ^
+
+ CCLD scale
+ scale.o: In function `app_new':
+ (.text+0x23e4): undefined reference to `gtk_scale_add_mark'
+ scale.o: In function `app_new':
+ (.text+0x250c): undefined reference to `gtk_scale_add_mark'
+ scale.o: In function `app_new':
+ (.text+0x2634): undefined reference to `gtk_scale_add_mark'
+ make[2]: *** [scale] Error 1
+ make[2]: Target `all' not remade because of errors.
+
+ $ pkg-config --modversion gtk+-2.0
+ 2.12.1
+
+ The demos/scale.c use call to gtk_scale_add_mark() function
from 2.16+
+ version of GTK+. Need do support old GTK+ (rewrite scale.c) or simple
+ demand of high version of GTK+, like this:
+
+commit 889f1189469e139473d0a88742ddfbbcaf485bef
+Author: Matthieu Herrb <matthieu.herrb@laas.fr>
+Date: Sat Jun 8 18:07:20 2013 +0200
+
+ configure.ac: Don't use '+=' since it's not POSIX
+
+ Reviewed-by: Matt Turner <mattst88@gmail.com>
+ Signed-off-by: Matthieu Herrb <matthieu.herrb@laas.fr>
+
+commit 2acfac5f8e097ee2ae225d986f981b55d65dd152
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed May 22 09:01:36 2013 -0400
+
+ Consolidate all the iter_init_bits_stride functions
+
+ The SSE2, MMX, and fast implementations all have a copy of the
+ function iter_init_bits_stride that computes an image buffer and
+ stride.
+
+ Move that function to pixman-utils.c and share it among all the
+ implementations.

+
+commit 533f54430a73199020ce49208d50f448c871a481
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Tue May 21 06:40:59 2013 -0400
+
+   Delete the old src/dest_iter_init() functions
+
+   Now that we are using the new _pixman_implementation_iter_init(), the
+   old _src/_dest_iter_init() functions are no longer needed, so they can
+   be deleted, and the corresponding fields in pixman_implementation_t
+   can be removed.
+
+commit 125a4fd36f94a06d220bc6709f3ddfd23bdb6ef9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 21 08:15:41 2013 -0400
+
+   Add _pixman_implementation_iter_init() and use instead of _src/_dest_init()
+
+   A new field, 'iter_info', is added to the implementation struct, and
+   all the implementations store a pointer to their iterator tables in
+   it. A new function, _pixman_implementation_iter_init(), is then added
+   that searches those tables, and the new function is called in
+   pixman-general.c and pixman-image.c instead of the old
+   _pixman_implementation_src_init() and _pixman_implementation_dest_init().
+
+commit
 245d0090c596eb3ca50294d0dec0fb0933eff0db
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed May 22 08:05:55 2013 -0400
+
+   general: Store the iter initializer in a one-entry pixman_iter_info_t table
+
+   In preparation for sharing all iterator initialization code from all
+   the implementations, move the general implementation to use a table of
+   pixman_iter_info_t.
+
+   The existing src_iter_init and dest_iter_init functions are
+   consolidated into one general_iter_init() function that checks the
+   iter_flags for whether it is dealing with a source or destination
+   iterator.
+
+   Unlike in the other implementations, the general_iter_init() function
+   stores its own get_scanline() and write_back() functions in the
+   iterator, so it relies on the initializer being called after
+   get_scanline and write_back being copied from the struct to the
+   iterator.
+

+commit 9c15afb105ee0c5b166b9bd07c28857927b1aecb
+Author: Søren
 Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 21 03:59:06 2013 -0400
+
+   fast: Replace the fetcher_info_t table with a pixman_iter_info_t table
+
+   Similar to the SSE2 and MMX patches, this commit replaces a table of
+   fetcher_info_t with a table of pixman_iter_info_t, and similar to the
+   noop patch, both fast_src_iter_init() and fast_dest_iter_init() are
+   now doing exactly the same thing, so their code can be shared in a new
+   function called fast_iter_init_common().
+
+commit 71c2d519d0abb8217b7ddb20148861e2ef71f3e6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 21 03:32:32 2013 -0400
+
+   mmx: Replace the fetcher_info_t table with a pixman_iter_info_t table
+
+   Similar to the SSE2 commit, information about the iterators is stored
+   in a table of pixman_iter_info_t.
+
+commit 78f437d61e20476fa1c2324b14744aa62a232a43
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 21 03:29:09 2013 -0400
+
+   sse2: Replace
 the fetcher_info_t table with a pixman_iter_info_t table
+
+   Similar to the changes to noop, put all the iterators into a table of
+   pixman_iter_info_t and then do a generic search of that table during
+   iterator initialization.
+
+commit c7b0da8a96c9196f751dab2af42adb5560ba6557
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 21 08:14:44 2013 -0400
+
+   noop: Keep information about iterators in an array of pixman_iter_info_t
+
+   Instead of having a nest of if statements, store the information about
+   iterators in a table of a new struct type, pixman_iter_info_t, and
+   then walk that table when initializing iterators.
+
+   The new struct contains a format, a set of image flags, and a set of
+   iter flags, plus a pixman_iter_get_scanline_t, a
+   pixman_iter_write_back_t, and a new function type
+   pixman_iter_initializer_t.
+

+ If the iterator matches an entry, it is first initialized with the
+ given get_scanline
and write_back functions, and then the provided
+ iter_initializer (if present) is run. Running the iter_initializer
+ after setting get_scanline and write_back allows the initializer to
+ override those fields if it wishes.
+
+ The table contains both source and destination iterators,
+ distinguished based on the recently-added ITER_SRC and ITER_DEST;
+ similarly, wide iterators are recognized with the ITER_WIDE
+ flag. Having both source and destination iterators in the table means
+ the noop_src_iter_init() and noop_dest_iter_init() functions become
+ identical, so this patch factors out their code in a new function
+ noop_iter_init_common() that both calls.
+
+ The following patches in this series will change all the
+ implementations to use an iterator table, and then move the table
+ search code to pixman-implementation.c.
+
+commit 3b96ee4e77ff01217f7fefc4718babbf68a13147
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
Mon May 20 09:44:05 2013 -0400
+
+ Always set the FAST_PATH_NO_ALPHA_MAP flag for non-BITS images
+
+ We only support alpha maps for BITS images, so it's always to ignore
+ the alpha map for non-BITS image. This makes it possible get rid of
+ the check for SOLID images since it will now be subsumed by the check
+ for FAST_PATH_NO_ALPHA_MAP.
+
+ Opaque masks are reduced to NULL images in pixman.c, and those can
+ also safely be treated as not having an alpha map, so set the
+ FAST_PATH_NO_ALPHA_MAP bit for those as well.
+
+commit 52ff5f0cd992e0384fa2babcb25780c3182548e6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Dec 6 02:25:35 2012 -0500
+
+ Add ITER_WIDE iter flag
+
+ This will be useful for putting iterators into tables where they can
+ be looked up by iterator flags. Without this flag, wide iterators can
+ only be recognized by the absence of ITER_NARROW, which makes testing
+ for a match difficult.
+
+commit e8a180797c726a8990291158be8db843c26b98d3
+Author:

Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon May 20 09:04:22 2013 -0400
+
+   Add ITER_SRC and ITER_DEST iter flags
+
+   These indicate whether the iterator is for a source or a destination
+   image. Note iterator initializers are allowed to rely on one of these
+   being set, so they can't be left out the way it's generally harmless
+   (aside from potentil performance degradation) to leave out a
+   particular fast path flag.
+
+commit 2320f0520b71c5d30b30125971df6a4245ce5207
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat May 18 11:39:34 2013 -0400
+
+   Make use of image flag in noop iterators
+
+   Similar to c2230fe2aff, simply check against SAMPLES_COVER_CLIP_NEAREST
+   instead of comparing all the x/y/width/height parameters.
+
+commit d77d75cc6e5de14d027d22b70389a4d0c71048b9
+Author: Markos Chandras <markos.chandras@imgtec.com>
+Date: Wed May 15 09:51:20 2013 -0700
+
+   Use AC_LINK_IFELSE
 to check if the Loongson MMI code can link
+
+   The Loongson code is compiled with -march=loongson2f to enable the MMI
+   instructions, but binutils refuses to link object code compiled with
+   different -march settings, leading to link failures later in the
+   compile. This avoids that problem by checking if we can link code
+   compiled for Loongson.
+
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+   Signed-off-by: Markos Chandras <markos.chandras@imgtec.com>
+
+commit a74be759a18831c738dc4d1346a3f053ccdb5991
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue May 14 12:40:50 2013 -0700
+
+   mmx: Document implementation(s) of pix_multiply().
+
+   I look at that function and can never remember what it does or how it
+   manages to do it.
+
+commit cb5d131ff4172a9bb455970cc15d93d8c1d14c4e
+Author: ingmar@irsoft.de <ingmar@irsoft.de>
+Date: Sat May 11 11:55:04 2013 +0200

+
+ Fix broken build when HAVE_CONFIG_H is undefined, e.g. on Win32.
+

+ Build fix for platforms without a generated config.h, for example Win32.
+
+commit d70141955e9f85b80f193bf4b453b698f5115734
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed May 8 19:40:12 2013 -0400
+
+ Post-release version bump to 0.31.1
+
+commit 41daf50aaeca71e70bc27aa4bf27ae4812c6eecf
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed May 8 19:31:22 2013 -0400
+
+ Pre-release version bump to 0.30.0
+
+commit 5a7179191dba6c592a63cad8aa8bc8af7ab5e586
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Apr 30 18:57:43 2013 -0400
+
+ Post-release version bump to 0.29.5
+
+commit 2714b5d201525e176429c0c030b8376a32b4f6c7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Apr 30 18:50:04 2013 -0400
+
+ Pre-release version bump to 0.29.4
+
+commit 7fc2654a1fdd6d6c41eddaac50b3668433873679
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 27 04:27:39 2013 -0400
+
+ pixman/refactor: Delete this file
+

+ Essentially all of it is obsolete by now.
+
+commit cb928a77c05a9c581e596b8eb24962d47fc39e9f
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:33:02 2013 +0200
+
+ MIPS: DSPr2: Added rpixbuf fast path.
+
+ Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench results

+
+   Referent (before):
+   rpixbuf = L1: 14.63 L2: 13.55 M: 9.91 (79.53%) HT: 8.47 VT: 8.32 R: 8.17 RT: 4.90 (33Kops/s)
+
+   Optimized:
+   rpixbuf = L1: 45.69 L2: 37.30 M: 17.24 (138.31%) HT: 15.66 VT: 14.88 R: 13.97 RT: 8.38 (
44Kops/s)
+
+commit c6a6fbdcd3ef18f733ff7ad11d5fafac384744cd
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:33:01 2013 +0200
+
+   MIPS: DSPr2: Added pixbuf fast path.
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   pixbuf = L1: 18.18 L2: 16.47 M:
 13.36 (107.27%) HT: 10.16 VT: 10.07 R: 9.84 RT: 5.54 (35Kops/s)
+
+   Optimized:
+   pixbuf = L1: 43.54 L2: 36.02 M: 17.08 (137.09%) HT: 15.58 VT: 14.85 R: 13.87 RT: 8.38 (
44Kops/s)
+
+commit f69335d5292310dc18f2f84d462430137a771976
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:33:00 2013 +0200
+
+   test: add "pixbuf" and "rpixbuf" to lowlevel-blt-bench
+
+   Add necessary support to lowlevel-blt benchmark for benchmarking pixbuf and
+   rpixbuf fast paths. bench_composite function now checks for pixbuf string in
+   testname, and if that is detected, use same bits for src and mask images.
+
+commit 3dc9e3827e342b415c519da1039b9a2e4fb293ec
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:32:59 2013 +0200
+
+   test: add "src_0888_8888_rev" and "src_0888_0565_rev" to lowlevel-blt-bench
+
+commit 44174ce51d1ed5a1bf988b9dd9218d8cbd379de3
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon
 Apr 15 19:32:58 2013 +0200
+
+   MIPS: DSPr2: Fix for bug in in_n_8 routine.

+
+ Rounding logic was not implemented right.
+ Instead of using rounding version of the 8-bit shift, logical shifts were used.
+ Also, code used unnecessary multiplications, which could be avoided by packing
+ 4 destination (a8) pixel into one 32bit register. There were also, unnecessary
+ spills on stack. Code is rewritten to address mentioned issues.
+
+ The bug was revealed by increasing number of the iterations in blitters-test.
+
+ Performance numbers on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench results
+
+ Referent (before):
+ in_n_8 = L1: 21.20 L2: 22.86 M: 21.42 (14.21%) HT: 15.97 VT: 15.69 R: 15.47 RT: 8.00 (
48Kops/s)
+ Optimized (first implementation, with bug):
+ in_n_8 = L1: 89.38 L2: 86.07 M: 65.48 (43.44%) HT: 44.64 VT: 41.50 R: 40.77 RT: 16.94 (
66Kops/s)
+ Optimized (with
bug fix, and code revisited):
+ in_n_8 = L1: 102.33 L2: 95.65 M: 70.54 (46.84%) HT: 48.35 VT: 45.06 R: 43.20 RT: 17.60 (
66Kops/s)
+
+commit 5858f09d264ef762ddcf7ede324bfce9f5991d29
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:32:57 2013 +0200
+
+ MIPS: DSPr2: Added src_0565_8888 nearest neighbor fast path.
+
+ Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench results
+
+ Referent (before):
+ src_0565_8888 = L1: 20.70 L2: 19.22 M: 12.50 (49.79%) HT: 10.45 VT: 10.18 R: 9.99 RT: 5.31 (
31Kops/s)
+
+ Optimized:
+ src_0565_8888 = L1: 62.98 L2: 53.44 M: 23.07 (91.87%) HT: 19.85 VT: 19.15 R: 17.70 RT: 9.68 (
43Kops/s)
+
+commit 311d55b6d8e1ac3acaa12d1d7c3eefdcfdc70718
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:32:56 2013 +0200
+
+ MIPS: DSPr2: Added over_8888_0565 nearest neighbor fast path.
+

+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   over_8888_0565 = L1: 13.22 L2: 12.02 M: 9.77 (38.92%) HT: 8.58 VT: 8.35 R: 8.38 RT: 5.78 (35Kops/s)
+
+   Optimized:
+   over_8888_0565 = L1: 26.20 L2: 22.97 M: 15.92 (63.40%) HT: 13.33 VT: 13.13 R: 12.72 RT: 7.65 (39Kops/s)
+
+commit bd487ee34c343142cbe451a2e04541d8aba0eaa7
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:32:55 2013 +0200
+
+   MIPS: DSPr2: Added over_8888_8888 nearest neighbor fast path.
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   over_8888_8888 = L1: 19.47 L2: 16.30 M: 11.24 (59.69%) HT: 9.54 VT: 9.29 R: 9.47 RT: 6.24 (37Kops/s)
+
+   Optimized:
+   over_8888_8888 = L1: 43.67 L2: 33.30 M: 16.32 (86.65%) HT: 14.10 VT: 13.78
 R: 12.96 RT: 7.85 (39Kops/s)
+
+commit 66def909ad82ed4ccb49380031cb828655c9a47f
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Apr 15 19:32:54 2013 +0200
+
+   MIPS: DSPr2: Fix bug in over_n_8888_8888_ca/over_n_8888_0565_ca routines
+
+   After introducing new PRNG (pseudorandom number generator) a bug in two DSPr2
+   routines was revealed. Bug manifested by wrong calculation in composite and
+   glyph tests, which caused make check to fail for MIPS DSPr2 optimizations.
+
+   Bug was in the calculation of the:
+   *dst = over (src, *dst) when ma == 0xffffffff
+
+   In this case src was not negated and shifted right by 24 bits, it was only
+   negated. When implementing this routine in the first place, I missplaced those
+   shifts, which alowed me to combine code for over operation and:
+   UN8x4_MUL_UN8x4 (s, ma);

```
+       UN8x4_MUL_UN8 (ma, srca);
+       ma = ~ma;
+       UN8x4_MUL_UN8x4_ADD_UN8x4 (d, ma, s);
+   So I decided to rewrite
 that piece of code from scratch. I changed logic, so
+   now assembly code mimics code from pixman-fast-path.c but processes two pixels
+   at a time. This code should be easier to debug and maintain.
+
+   The bug was revealed in commit b31a6962. Errors were detected by composite
+   and glyph tests.
+
+commit d768558ce195caa208262866f9262b29efff22dc
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Mon Jan 28 07:00:12 2013 +0200
+
+   sse2: faster bilinear interpolation (get rid of XOR instruction)
+
+   The old code was calculating horizontal weights for right pixels
+   in the following way (for simplicity assume 8-bit interpolation
+   precision):
+
+     Start with "x = vx" and do increment "x += ux" after each pixel.
+     In this case right pixel weight for interpolation can be calculated
+     as "((x >> 8) ^ 0xFF) + 1", which is the same as "256 - (x >> 8)".
+
+   The new code instead:
+
+     Starts with "x = -(vx + 1)",
 performs increment "x += -ux" after
+     each pixel and calculates right weights as just "(x >> 8) + 1",
+     eliminating the need for XOR operation in the inner loop.
+
+   So we have one instruction less on the critical path. Benchmarks
+   with "lowlevel-blt-bench -b src_8888_8888" using GCC 4.7.2 on
+   x86-64 system and default optimizations:
+
+   Intel Core i7 860 (2.8GHz):
+       before: src_8888_8888 =  L1: 291.37  L2: 288.58  M:285.38
+       after:  src_8888_8888 =  L1: 319.66  L2: 316.47  M:312.06
+
+   Intel Core2 T7300 (2GHz):
+       before: src_8888_8888 =  L1: 121.95  L2: 118.38  M:118.52
+       after:  src_8888_8888 =  L1: 128.82  L2: 125.12  M:124.88
+
+   Intel Atom N450 (1.67GHz):
+       before: src_8888_8888 =  L1:  64.25  L2:  62.37  M: 61.80
+       after:  src_8888_8888 =  L1:  64.23  L2:  62.37  M: 61.82
+
```

+   Inspired by the "sse2_bilinear_interpolation" function (single
+   pixel interpolation) from:
+
+   http://lists.freedesktop.org/archives/pixman/2013-January/002575.html
+
+commit
 59109f32930a0c163628f8087cbb0a15b19cb96b
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Tue Mar 5 00:59:13 2013 +0200
+
+   test: larger 0xFF/0x00 filled clusters in random images for blitters-test
+
+   Current blitters-test program had difficulties detecting a bug in
+   over_n_8888_8888_ca implementation for MIPS DSPr2:
+
+
+   http://lists.freedesktop.org/archives/pixman/2013-March/002645.html
+
+   In order to hit the buggy code path, two consecutive mask values had
+   to be equal to 0xFFFFFFFF because of loop unrolling. The current
+   blitters-test generates random images in such a way that each byte
+   has 25% probability for having 0xFF value. Hence each 32-bit mask
+   value has ~0.4% probability for 0xFFFFFFFF. Because we are testing
+   many compositing operations with many pixels, encountering at least
+   one 0xFFFFFFFF mask value reasonably fast is not a
 problem. If a
+   bug related to 0xFFFFFFFF mask value is artificialy introduced into
+   over_n_8888_8888_ca generic C function, it gets detected on 675591
+   iteration in blitters-test (out of 2000000).
+
+   However two consecutive 0xFFFFFFFF mask values are much less likely
+   to be generated, so the bug was missed by blitters-test.
+
+   This patch addresses the problem by also randomly setting the 32-bit
+   values in images to either 0xFFFFFFFF or 0x00000000 (also with 25%
+   probability). It allows to have larger clusters of consecutive 0x00
+   or 0xFF bytes in images which may have special shortcuts for handling
+   them in unrolled or SIMD optimized code.
+
+commit a99147d1ea0d67f635f9284c242485fb5621cab3
+Author: Stefan Weil <sw@weilnetz.de>
+Date: Sat Apr 27 08:00:38 2013 +0200
+
+   Trivial spelling fixes in comments
+
+   They were found by codespell.
+
+   Signed-off-by: Stefan Weil <sw@weilnetz.de>
+
+commit 9d0bb10312e5de0653c9e28df79ce8a5e8cec97a

+Author:
 Peter Breitenlohner <peb@mppmu.mpg.de>
+Date: Mon Apr 8 13:13:05 2013 +0200
+
+   Check for missing sqrtf() as, e.g., for Solaris 9
+
+   Signed-off-by: Peter Breitenlohner <peb@mppmu.mpg.de>
+
+commit d8ac35af1208a4fa4d67f03fee10b5449fb8495a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Feb 14 08:06:19 2013 -0500
+
+   Improve precision of calculations in pixman-gradient-walker.c
+
+   The computations in pixman-gradient-walker.c currently take place at
+   very limited 8 bit precision which results in quite visible artefacts
+   in gradients. An example is the one produced by demos/linear-gradient
+   which currently looks like this:
+
+   http://i.imgur.com/kQbX8nd.png
+
+   With the changes in this commit, the gradient looks like this:
+
+   http://i.imgur.com/nUlyuKI.png
+
+   The images are also available here:
+
+   http://people.freedesktop.org/~sandmann/gradients/before.png
+   http://people.freedesktop.org/~sandmann/gradients/after.png
+

+   This patch computes pixels using floating point, but uses a faster
+   algorithm, which makes up for the loss of performance.
+
+   == Theory:
+
+   In both the new and the old algorithm, the various gradient
+   implementations compute a parameter x that indicates how far along the
+   gradient the current scanline is. The current algorithm has a cache of
+   the two color stops surrounding the last parameter; those are used in
+   a SIMD-within-register fashion in this way:
+
+   t1 = walker->left_rb * idist + walker->right_rb * dist;
+
+   where dist and idist are the distances to the left and right color
+   stops respectively normalized to the distance between the left and
+   right stops. The normalization (which involves a division) is captured
+   in another cached variable "stepper". The cached values are recomputed

```
+    whenever the parameter moves in between two different stops
 (called
+    "reset" in the implementation).
+
+    Because idist and dist are computed in 8 bits only, a lot of
+    information is lost, which is quite visible as the image linked above
+    shows.
+
+    The new algorithm caches more information in the following way. When
+    interpolating between stops, the formula to be used is this:
+
+         t = ((x - left) / (right - left));
+
+         result = lc * (1 - t) + rc * t;
+
+    where
+
+       - x is the parameter as computed by the main gradient code,
+       - left is the position of the left color stop,
+       - right is the position of the right color stop
+       - lc is the color of the left color stop
+       - rc is the color of the right color stop
+
+    That formula can also be written like this:
+
+       result
+         = lc * (1 - t) + rc * t;
+         = lc + (rc - lc) * t
+         = lc + (rc - lc) * ((x - left) / (right - left))
+         = (rc - lc) / (right - left)
 * x +
+                lc - (left * (rc - lc)) / (right - left)
+         = s * x + b
+
+    where
+
+       s = (rc - lc) / (right - left)
+
+    and
+
+       b = lc - left * (rc - lc) / (right - left)
+         = (lc * (right - left) - left * (rc - lc)) / (right - left)
+         = (lc * right - rc * left) / (right - left)
+
+    To summarize, setting w = (right - left):
+
+       s = (rc - lc) / w
+       b = (lc * right - rc * left) / w
```

+
+ r = s * x + b
+
+ Since s and b only depend on the two active stops, both can be cached
+ so that the computation only needs to do one multiplication and one
+ addition per pixel (followed by premultiplication of the alpha
+ channel). That is, seven multiplications in total, which is the same
+ number as the old SIMD-within-register implementation had.
+
+ == Implementation notes:
+
+ The new formula described above is implemented in single precision
+ floating
point, and the eight divisions necessary to compute the
+ cached values are done by multiplication with the reciprocal of the
+ distance between the color stops.
+
+ The alpha values used in the cached computation are scaled by 255.0,
+ whereas the RGB values are kept in the [0, 1] interval. The ensures
+ that after premultiplication, all values will be in the [0, 255]
+ interval.
+
+ This scaling is done by first dividing all the all the channels by
+ 257, and then later on dividing the r, g, b channels by 255. It would
+ be more natural to do all this scaling in only one place, but
+ inexplicably, that results in a (substantial) slowdown on Sandy Bridge
+ with GCC v 4.7.
+
+ == Performance impact (median of three runs of radial-perf-test):
+
+ == Intel Sandy Bridge, Core i3 @ 1.2GHz
+
+ Before: 0.014553
+ After: 0.014410
+ Change: 1.0% faster
+
+ == AMD Barcelona @ 1.2 GHz
+
+ Before:
0.021735
+ After: 0.021328
+ Change: 1.9% faster
+
+ Ie., slightly faster, though conceivably there could be a negative
+ impact on machines with a bigger difference between integer and
+ floating point performance.
+
+ V2:

+
+   - Use 's' and 'b' in the variable names instead of 'm' and 'd'. This
+   way they match the explanation above
+
+   - Move variable declarations to the top of the function
+
+   - Remove unused stepper field
+
+   - Some formatting fixes
+
+   - Don't pointlessly include pixman-combine32.h
+
+   - Don't offset x for each pixel; go back to offsetting left_x and
+   right_x at reset time. The offsets cancel out in the formula above,
+   so there is no impact on the calcualations.
+
+commit a1c2331e0eb35d87cf295518838debe1217ca9df
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 8 14:05:50 2013 -0500
+
+   Move the IS_ZERO() to pixman-private.h and rename to FLOAT_IS_ZERO()
+

+   Some upcoming changes to pixman-gradient-walker.c will need this
+   macro.
+
+commit 2c953e572f6c3c18046e768dd07d12150b1f2e94
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Feb 24 21:49:06 2013 -0500
+
+   test: Add radial-perf-test, a microbenchmark for radial gradients
+
+   This benchmark renders one of the radial gradients used in the
+   swfdec-youtube cairo trace 500 times and reports the average time it
+   took.
+
+   V2: Update .gitignore
+
+commit 460faaa41105c2939d041506f6ff08e2b12e7596
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Feb 14 20:32:31 2013 -0500
+
+   demos: Add linear-gradient demo program
+
+   This program displays a linear gradient from blue to yellow. Due to
+   limited precision in pixman-gradient-walker.c, it currently has some
+   ugly artefacts that gives it a 'brushed metal' appearance.
+

+   V2: Update .gitignore
+
+commit aaae3d8eefa069098e9014822817ca1429fdea46
+Author: Behdad
 Esfahbod <behdad@behdad.org>
+Date: Fri Mar 8 06:00:00 2013 -0500
+
+   Remove unused macro
+
+commit 5feda20fc39407879993ed4a6d861ef7f78d9432
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Wed Feb 27 14:40:51 2013 +0100
+
+   MIPS: DSPr2: Added more fast-paths for SRC operation:
+   - src_0888_8888_rev
+   - src_0888_0565_rev
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   src_0888_8888_rev = L1: 51.88 L2: 42.00 M: 19.04 (88.50%) HT: 15.27 VT: 14.62 R: 14.13 RT:
7.12 (45Kops/s)
+   src_0888_0565_rev = L1: 31.96 L2: 30.90 M: 22.60 (75.03%) HT: 15.32 VT: 15.11 R: 14.49 RT:
6.64 (43Kops/s)
+
+   Optimized:
+   src_0888_8888_rev = L1: 222.73 L2: 113.70 M: 20.97 (97.35%) HT: 18.31 VT: 17.14 R: 16.71 RT:
9.74 (54Kops/s)
+   src_0888_0565_rev = L1: 100.37 L2: 74.27 M: 29.43 (97.63%) HT: 22.92 VT: 21.59
  R: 20.52 RT: 10.56 (56Kops/s)
+
+commit 43914d68d1c87a9da6f53e6b0a12941c97bb0e5d
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Wed Feb 27 14:39:45 2013 +0100
+
+   MIPS: DSPr2: Added more fast-paths for OVER operation:
+   - over_8888_0565
+   - over_n_8_8
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   over_8888_0565 = L1: 14.30 L2: 13.22 M: 10.43 (41.56%) HT: 12.51 VT: 12.95 R: 11.82 RT: 7.34
(49Kops/s)

+ over_n_8_8 = L1: 12.77 L2: 16.93 M: 15.03 (29.94%) HT: 10.78 VT: 10.72 R: 10.29 RT: 4.92 (33Kops/s)
+
+ Optimized:
+ over_8888_0565 = L1: 26.03 L2: 22.92 M: 15.68 (62.43%) HT: 16.19 VT: 16.27 R: 14.93 RT: 8.60 (52Kops/s)
+ over_n_8_8 = L1: 62.00 L2: 55.17 M: 40.29 (80.23%) HT: 26.77 VT: 25.64 R: 24.13 RT: 10.01 (47Kops/s)
+
+commit 2156fb51b353867d5a18b734690ca551f74d4fb1
+Author:
Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 15 18:34:46 2013 -0500
+
+ gtk-utils.c: Use cairo in show_image() rather than GdkPixbuf
+
+ GdkPixbufs are not premultiplied, so when using them to display pixman
+ images, there is some unecessary conversions going on: First the image
+ is converted to non-premultiplied, and then GdkPixbuf premultiplies
+ before sending the result to the X server. These conversions may cause
+ the displayed image to not be exactly identical to the original.
+
+ This patch just uses a cairo image surface instead, which avoids these
+ conversions.
+
+ Also make the comment about sRGB a little more concise.
+
+commit 5e207f825bd1ed3142a623bcbceca00508907c5e
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Wed Feb 6 00:39:12 2013 +0000
+
+ Fix to lowlevel-blt-bench
+
+ The source, mask and destination buffers are initialised to 0xCC just after
+ they are allocated. Between each
benchmark, there are a pair of memcpys,
+ from the destination buffer to the source buffer and back again (there are
+ no explanatory comments, but presumably this is an effort to flush the
+ caches). However, it has an unintended consequence, which is to change the
+ contents of the buffers on entry to subsequent benchmarks. This means it is
+ not a fair test: for example, with over_n_8888 (featured in the following
+ patches) it reports L2 and even M tests as being faster than the L1 test,
+ because after the L1 test, the source buffer is filled with fully opaque
+ pixels, for which over_n_8888 has a shortcut.
+
+ The fix here is simply to reverse the order of the memcpys, so src and
+ destination are both filled with 0xCC on entry to all tests.
+

+commit d26f922dc1a605dae00fa0540198707485ba1f08
+Author: Stefan Weil <sw@weilnetz.de>
+Date: Sat Feb 9 12:40:16 2013 +0100
+
+   sse2: Use uintptr_t in type casts from pointer to integral value
+
+
    Some recent code added new type casts from pointer to unsigned long.
+   These type casts result in compiler warnings for systems like
+   MinGW-w64 (64 bit Windows) where sizeof(unsigned long) != sizeof(void *).
+
+   Signed-off-by: Stefan Weil <sw@weilnetz.de>
+   Reviewed-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit dc80eb09e2831d5ad3bfe638462f80921357952b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jan 31 14:54:49 2013 -0500
+
+   lookup_composite: Don't update cache in case of error
+
+   If we fail to find a composite function, don't update the fast path
+   cache with the dummy compositing function.
+
+   Also make the error message state that the bug is likely caused by
+   issues with thread local storage.
+
+commit 4dced81c917c753a4e699e3793efa15a39361cf0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jan 31 14:36:38 2013 -0500
+
+   Turn on error logging at all times
+
+   While releasing 0.29.2 the distcheck
 run produced a number of error
+   messages that had to be fixed in 349015e1fc5d912ba4253133b90e751d0b.
+   These were not caught before so nobody had actually run pixman with
+   debugging turned on. It's not the first time this has happened, see
+   5b0563f39eb29e4ae431717696174da5 for example.
+
+   So this patch makes the return_if_fail() macros use unlikely() around
+   the expressions and then turns on error logging at all times. The
+   performance hit should negligible since we were already evaluating the
+   expressions.
+
+   The place where DEBUG actually does cause a performance hit is in the
+   region selfcheck code, and that will still only be enabled in
+   development snapshots.
+

+commit f4c9492c12d98f76d99b4dbdca56d517e1ffdb19
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jan 31 14:31:26 2013 -0500
+
+   pixman-compiler.h: Add unlikely() macro
+
+   When compiling with GCC this macro expands to __builtin_expect((expr),
 0).
+   On other compilers, it just expands to (expr).
+
+commit 5ebb5ac3807cdc7bb76358041a15cc5adca2ef23
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 22 08:29:57 2013 -0500
+
+   utils.c: Increase acceptable deviation to 0.0064 in pixel_checker_t
+
+   The check-formats programs reveals that the 8 bit pipeline cannot meet
+   the current 0.004 acceptable deviation specified in utils.c, so we
+   have to increase it. Some of the failing pixels were captured in
+   pixel-test, which with this commit now passes.
+
+   == a4r4g4b4 DISJOINT_XOR a8r8g8b8 ==
+
+   The DISJOINT_XOR operator applied to an a4r4g4b4 source pixel of
+   0xd0c0 and a destination pixel of 0x5300ea00 results in the exact
+   value:
+
+   fa = (1 - da) / sa = (1 - 0x53 / 255.0) / (0xd / 15.0) = 0.7782
+   fb = (1 - sa) / da = (1 - 0xd / 15.0) / (0x53 / 255.0) = 0.4096
+
+   r = fa * (0xc / 15.0) + fb * (0xea / 255.0) = 0.99853
+
+   But when computing
 in 8 bits, we get:
+
+   fa8 = ((255 - 0x53) * 255 + 0xdd / 2) / 0xdd = 0xc6
+   fb8 = ((255 - 0xdd) * 255 + 0x53 / 3) / 0x53 = 0x68
+
+   r8 = (fa8 * 0xcc + 127) / 255 + (fb8 * 0xea + 127) / 255 = 0xfd
+
+   and
+
+   0xfd / 255.0 = 0.9921568627450981
+
+   for a deviation of 0.00637118610187, which we then have to consider
+   acceptable given the current implementation.
+
+   By switching to computing the result with

+
+   r = (fa * s + fb * d + 127) / 255
+
+   rather than
+
+   r = (fa * s + 127) / 255 + (fb * d + 127) / 255
+
+   the deviation would be only 0.00244961747442, so at some point it may
+   be worth doing either this, or switching to floating point for
+   operators that involve divisions.
+
+   Note that the conversion from 4 bits to 8 bits does not cause any
+   error in this case because both rounding and bit replication produces
+   an exact result when the number of from-bits
 divide the number of
+   to-bits.
+
+   == a8r8g8b8 OVER r5g6b5 ==
+
+   When OVER compositing the a8r8g8b8 pixel 0x0f00c300 with the x14r6g6b6
+   pixel 0x03c0, the true floating point value of the resulting green
+   channel is:
+
+   0xc3 / 255.0 + (1.0 - 0x0f / 255.0) * (0x0f / 63.0) = 0.9887955
+
+   but when compositing 8 bit values, where the 6-bit green channel is
+   converted to 8 bit through bit replication, the 8-bit result is:
+
+   0xc3 + ((255 - 0x0f) * 0x3c + 127) / 255 = 251
+
+   which corresponds to a real value of 0.984314. The difference from the
+   true value is 0.004482 which is bigger than the acceptable deviation
+   of 0.004. So, if we were to compute all the CONJOINT/DISJOINT
+   operators in floating point, or otherwise make them more accurate, the
+   acceptable deviation could be set at 0.0045.
+
+   If we were doing the 6-bit conversion with rounding:
+
+   (x / 63.0 * 255.0 + 0.5)
+
+   instead
 of bit replication, the deviation in this particular case
+   would be only 0.0005, so we may want to consider this at some
+   point.
+
+commit f2ba7fe1d812a30004b734e398f45b586833d43f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 19 16:32:15 2013 -0500

+
+   test: Add new pixel-test regression test
+
+   This test program contains a table of individual operator/pixel
+   combinations. For each pixel combination, images of various sizes are
+   filled with the pixels and then composited. The result is then
+   verified against the output of do_composite(). If the result doesn't
+   match, detailed error information is printed.
+
+   The initial 14 pixel combinations currently all fail.
+
+commit 6781636740099633b9a8f7e0cc8e7828770f2fc3
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jan 21 15:02:53 2013 -0500
+
+   a1-trap-test: Add tests for operator_name and format_name()
+
+   The check-formats.c test depends on the
 exact format of the strings
+   returned from these functions, so add a test here.
+
+   a1-trap-test isn't the ideal place, but it seems like overkill to add
+   a new test just for these trivial checks.
+
+commit d1434d112ca5cd325e4fb85fc60afd1b9e902786
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jan 21 15:54:05 2013 -0500
+
+   test: Add new check-formats utility
+
+   Given an operator and two formats, this program will composite and
+   check all pixels where the red and blue channels are 0. That is, if
+   the two formats are a8r8g8b8 and a4r4g4b4, all source pixels matching
+   the mask
+
+   0xff00ff00
+
+   are composited with the given operator against all destination pixels
+   matching the mask
+
+   0xf0f0
+
+   and the result is then verified against the do_composite() function
+   that was moved to utils.c earlier.
+
+   This program reveals that a number of operators and format
+   combinations are not

computed to within the precision currently
+   accepted by pixel_checker_t. For example:
+
+   check-formats over a8r8g8b8 r5g6b5 | grep failed | wc -l
+   30
+
+   reveals that there are 30 pixel combinations where OVER produces
+   insufficiently precise results for the a8r8g8b8 and r5g6b5 formats.
+
+commit 1820131fe6674d46b9876965b30b331d593124a8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 22 07:36:19 2013 -0500
+
+   utils.[ch]: Add pixel_checker_get_masks()
+
+   This function returns the a, r, g, and b masks corresponding to the
+   pixel checker's format.
+
+commit 5eb61f72ea50e02eb185c746108909945b589e65
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 22 11:57:53 2013 -0500
+
+   test/utils.[ch]: Add pixel_checker_convert_pixel_to_color()
+
+   This function takes a pixel in the format corresponding to the pixel
+   checker, and converts to a color_t.
+
+commit 3ae717f71a31620a5cb28792b9effd0c69ffb822
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 19 12:14:24 2013 -0500
+
+   test: Move do_composite() function from composite.c to utils.c
+
+   So that it can be used in other tests.
+
+commit 958bd334b3c17f529c80f2eeef4224f45c62f292
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 29 21:42:02 2013 -0500
+
+   Post-release version bump to 0.29.3
+
+commit a56707e23bf2d3ef7c2ff9f66f214716791a424d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 29 20:23:39 2013 -0500
+
+   Pre-release version bump to 0.29.2
+

+commit 349015e1fc5d912ba4253133b90e751d0b6ca7f2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 29 20:23:31 2013 -0500
+
+   stresstest: Ensure that the rasterizer is only given alpha formats
+
+   In c2cb303d33ec11390b93cabd90f0f9, return_if_fail()s were added to
+   prevent the trapezoid rasterizers from being called with non-alpha
+   formats. However, stress-test actually does call
 the rasterizers with
+   non-alpha formats, but because _pixman_log_error() is disabled in
+   versions with an odd minor number, the errors never materialized.
+
+   Fix this by changing the argument to random format to an enum of three
+   values DONT_CARE, PREFER_ALPHA, or REQUIRE_ALPHA, and then in the
+   switch that calls the trapezoid rasterizers, pass the appropriate
+   value for the function in question.
+
+commit afde862928da7ac927cf4b60a022fafe5f060d26
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jan 27 20:08:06 2013 -0500
+
+   Change default GPGKEY to 3892336E, which is soren.sandmann@gmail.com
+
+   The old one belongs to the email address sandmann@daimi.au.dk, which
+   doesn't work anyore.
+
+   Also use gpg to get the name and address for the "(Signed by ...)"
+   line since that works more reliably for me than using git.
+
+commit 69a7a9b6b6dc5b769888c469de3435059318f7cc
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Thu
 Jan 24 18:19:48 2013 +0000
+
+   Improve L1 and L2 benchmark tests for caches that don't use allocate-on-write
+
+   In particular this affects single-core ARMs (e.g. ARM11, Cortex-A8), which
+   are usually configured this way. For other CPUs, this should only add a
+   constant time, which will be cancelled out by the EXCLUDE_OVERHEAD runs.
+
+   The problems were caused by cachelines becoming permanently evicted from
+   the cache, because the code that was intended to pull them back in again on
+   each iteration assumed too long a cache line (for the L1 test) or failed to
+   read memory beyond the first pixel row (for the L2 test). Also, the reloading
+   of the source buffer was unnecessary.
+
+   These issues were identified by Siarhei in this post:

+ http://lists.freedesktop.org/archives/pixman/2013-January/002543.html
+
+commit 1fa67f499d3826fad8783684bb90c8aadd9f682f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jan 18 14:13:21 2013
-0500
+
+ pixman-combine-float.c: Use IS_ZERO() in clip_color() and set_sat()
+
+ The clip_color() function has some checks to avoid division by zero,
+ but they are done by comparing the value to 4 * FLT_EPSILON, where a
+ better choice is the IS_ZERO() macro that compares to +/- FLT_MIN.
+
+ In set_sat(), the check is that *max > *min before dividing by *max -
+ *min, but that has the potential problem that interactions between GCC
+ optimizions and 80 bit x87 registers could mean that (*max > *min) is
+ true in 80 bits, but (*max - *min) is 0 in 32 bits, so that the
+ division by zero is not prevented. Using IS_ZERO() here as well
+ prevents this.
+
+commit 7e53e5866458fe592fc109cb1455c21c4b61dee9
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Sat Jan 19 16:16:53 2013 +0000
+
+ ARMv6: Replacement add_8_8, over_8888_8888, over_8888_n_8888 and over_n_8_8888 routines
+
+ Improved by adding preloads, combining writes and using the
SEL
+ instruction.
+
+ add_8_8
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 62.1 0.2 543.4 12.4 100.0% +774.9%
+ L2 38.7 0.4 116.8 1.7 100.0% +201.8%
+ M 40.0 0.1 110.1 0.5 100.0% +175.3%
+ HT 30.9 0.2 43.4 0.5 100.0% +40.4%
+ VT 30.6 0.3 39.2 0.5 100.0% +28.0%
+ R 21.3 0.2 35.4 0.4 100.0% +66.6%
+ RT 8.6 0.2 10.2 0.3 100.0% +19.4%
+
+ over_8888_8888
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 32.3 0.1 38.0 0.2 100.0% +17.7%
+ L2 15.9 0.4 30.6 0.5 100.0% +92.8%

```
+   M   13.3   0.0     25.6   0.0     100.0%     +92.9%
+   HT  10.5   0.1     15.5   0.1     100.0%     +47.1%
+   VT  10.4   0.1     14.6   0.1     100.0%     +40.8%
+   R   10.3   0.1     15.8
  0.1     100.0%     +53.3%
+   RT  6.0    0.1     7.6    0.1     100.0%     +25.9%
+
+   over_8888_n_8888
+
+      Before          After
+      Mean   StdDev   Mean   StdDev  Confidence  Change
+   L1  17.6   0.1     21.0   0.1     100.0%     +19.2%
+   L2  11.2   0.2     19.2   0.1     100.0%     +71.2%
+   M   10.2   0.0     19.6   0.0     100.0%     +92.6%
+   HT  8.4    0.0     11.9   0.1     100.0%     +41.7%
+   VT  8.3    0.0     11.3   0.1     100.0%     +36.4%
+   R   8.3    0.0     11.8   0.1     100.0%     +43.1%
+   RT  5.1    0.1     6.2    0.1     100.0%     +21.3%
+
+   over_n_8_8888
+
+      Before          After
+      Mean   StdDev   Mean   StdDev  Confidence  Change
+   L1  17.5   0.1     22.8   0.8     100.0%     +30.1%
+   L2  14.2   0.3     21.7   0.2     100.0%     +52.6%
+   M   12.0   0.0     22.3   0.0     100.0%     +84.8%
+   HT  10.5   0.1     14.1   0.1     100.0%     +34.5%
+   VT  10.0   0.1
    13.5   0.1     100.0%     +35.3%
+   R   9.4    0.0     12.9   0.2     100.0%     +37.7%
+   RT  5.5    0.1     6.5    0.2     100.0%     +19.2%
+
+commit f87dfd6f37a29c69320edd92f28aed5334b09366
+Author: Ben Avison <bavison@riscosopen.org>
+Date:   Sat Jan 19 16:16:52 2013 +0000
+
+   ARMv6: New conversion routines
+
+   There was no previous attempt at accelerating these specifically for
+   ARMv6.
+
+   src_x888_8888
+
+      Before          After
+      Mean   StdDev   Mean   StdDev  Confidence  Change
+   L1  96.7   0.5     270.4  2.6     100.0%     +179.5%
+   L2  44.6   2.7     110.6  9.7     100.0%     +148.0%
+   M   26.9   0.1     87.6   0.5     100.0%     +226.1%
```

+ HT 19.3 0.2 37.5 0.4 100.0% +93.7%
+ VT 18.6 0.1 33.7 0.4 100.0% +81.6%
+ R 18.4 0.1 32.2 0.3 100.0% +75.2%
+ RT 9.2 0.2 12.1 0.3 100.0% +31.4%
+
+ src_0565_8888
+
+
Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 37.0 0.3 66.9 0.2 100.0% +80.8%
+ L2 30.3 0.2 55.9 0.3 100.0% +84.4%
+ M 25.9 0.0 62.3 0.2 100.0% +140.3%
+ HT 15.2 0.1 33.1 0.3 100.0% +116.9%
+ VT 15.1 0.1 30.7 0.3 100.0% +103.6%
+ R 14.2 0.1 27.6 0.3 100.0% +94.0%
+ RT 6.0 0.1 11.2 0.3 100.0% +87.2%
+
+commit a0f59f3b2884b056428229363576666f158a9bb4
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Sat Jan 19 16:16:51 2013 +0000
+
+ ARMv6: New blit routines
+
+ These are usable either as various composite operations, or via the
+ top-level function pixman_blt() which now does some blitting for the
+ first time on an ARMv6 platform (previously it just returned FALSE).
+
+ src_8888_8888
+
+ Before After
+ Mean StdDev Mean StdDev Confidence
Change
+ L1 414.5 9.4 445.8 3.6 100.0% +7.6%
+ L2 93.3 20.7 114.5 12.9 100.0% +22.7%
+ M 57.0 0.2 89.2 0.5 100.0% +56.4%
+ HT 28.7 0.3 39.6 0.4 100.0% +37.9%
+ VT 25.5 0.2 35.3 0.4 100.0% +38.4%
+ R 20.1 0.1 33.8 0.3 100.0% +67.8%
+ RT 7.8 0.2 12.7 0.4 100.0% +62.7%
+
+ src_0565_0565
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 397.4 6.1 412.5 5.2 100.0% +3.8%
+ L2 143.2 10.9 141.9 6.5 68.9% -0.9% (insignificant)
+ M 90.7 0.4 133.5 0.7 100.0% +47.1%

+ HT 38.6 0.3 53.7 0.7 100.0% +39.0%
+ VT 33.0 0.3 47.3 0.6 100.0% +43.3%
+ R 25.7 0.2 42.1 0.5 100.0% +64.1%
+ RT 8.0 0.2 13.3 0.3 100.0% +65.6%
+
+ src_8_8
+

+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 716.5 9.8 768.2 20.4 100.0% +7.2%
+ L2 246.2 12.7 260.5 8.8 100.0% +5.8%
+ M 146.8 0.7 227.9 0.7 100.0% +55.2%
+ HT 44.9 0.6 62.1 1.0 100.0% +38.2%
+ VT 35.6 0.4 53.4 0.7 100.0% +50.0%
+ R 29.7 0.3 48.2 0.6 100.0% +62.2%
+ RT 8.6 0.2 12.9 0.4 100.0% +49.3%
+
+commit 3cff56c5b091d2e584503e7887414e224876de37
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Sat Jan 19 16:16:50 2013 +0000
+
+ ARMv6: New fill routines
+
+ Note that this also effectively accelerates src_n_8888, src_n_0565 and
+ src_n_8 composite types, because of the fast paths in
+ pixman-fast-path.c implemented by fast_composite_solid_fill(), which
+ end up dispatching these platform-specific fill routines.
+
+ src_n_8888
+
+ Before
After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 157.3 1.1 574.2 8.7 100.0% +265.0%
+ L2 94.2 0.5 364.8 4.2 100.0% +287.3%
+ M 92.7 0.4 358.7 1.1 100.0% +287.1%
+ HT 68.5 0.9 133.6 4.0 100.0% +95.2%
+ VT 61.3 0.8 111.8 2.6 100.0% +82.4%
+ R 61.1 0.9 108.7 2.8 100.0% +78.1%
+ RT 24.6 1.0 28.6 1.6 100.0% +16.0%
+
+ src_n_0565
+

+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 157.4 1.0 983.1 38.5 100.0% +524.6%
+ L2 93.6 0.5 696.0 14.3 100.0% +643.4%

+ M 92.7 0.4 680.5 1.0 100.0% +634.0%
+ HT 68.3 0.9 160.3 6.6 100.0% +134.6%
+ VT 61.1 0.8 130.1 3.4 100.0% +112.9%
+ R 61.0 0.8 125.4 4.1 100.0% +105.7%
+ RT 24.9 1.3 29.5 1.5
100.0% +18.2%
+
+ src_n_8
+
+ Before After
+ Mean StdDev Mean StdDev Confidence Change
+ L1 154.7 1.0 1324.4 48.5 100.0% +756.3%
+ L2 92.4 0.4 1178.4 10.9 100.0% +1175.6%
+ M 92.9 0.4 1275.7 2.1 100.0% +1273.5%
+ HT 68.2 1.0 169.8 5.5 100.0% +149.0%
+ VT 61.2 1.0 138.5 3.6 100.0% +126.3%
+ R 61.3 0.9 130.1 3.8 100.0% +112.4%
+ RT 25.5 1.3 29.2 1.9 100.0% +14.6%
+
+commit 2e173326aaf232d84ed71faf3517bd7989680e27
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Mon Jan 28 17:03:50 2013 +0000
+
+ ARMv6: Lay the groundwork for later patches in the series
+
+ Move the entire contents of pixman-arm-simd-asm.S to a new file;
+ ultimately this will only retain the scaled operations, so it is
+ named pixman-arm-simd-asm-scaled.S. Added new header file
+ pixman-arm-simd-asm.h, containing
the macros which are the basis of
+ all the new ARMv6 implementations, although at this point in the
+ series, nothing uses them and the library should be binary-identical.
+
+commit 65fc1adb6545737058e938105ae948a3607c277c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 26 00:34:53 2013 -0500
+
+ demo/scale: Add a spin button to set the number of subsample bits
+
+ For large upscalings the level of subsampling for the filter has a
+ quite visible effect, so make it settable in the UI so that people can
+ experiment with various values.
+
+commit ed39992564beefe6b12f81e842caba11aff98a9c
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Dec 15 07:18:53 2012 +0200
+
+ Use pixman_transform_point_31_16() from pixman_transform_point()

+
+   Old functions pixman_transform_point() and pixman_transform_point_3d()
+   now become just wrappers for pixman_transform_point_31_16() and
+   pixman_transform_point_31_16_3d().
 Eventually their uses should be
+   completely eliminated in the pixman code and replaced with their
+   extended range counterparts. This is needed in order to be able
+   to correctly handle any matrices and parameters that may come
+   to pixman from the code responsible for XRender implementation.
+
+commit 5a78d74ccccba2aeb473f04ade44512d2f6c0613
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Dec 15 06:19:21 2012 +0200
+
+   test: Added matrix-test for testing projective transform accuracy
+
+   This test uses __float128 data type when it is available
+   for implementing a "perfect" reference implementation. The
+   output from from pixman_transform_point_31_16() and
+   pixman_transform_point_31_16_affine() is compared with the
+   reference implementation to make sure that the rounding
+   errors may only show up in a single least significant bit.
+
+   The platforms and compilers, which do not support __float128
+   data type, can rely
 on crc32 checksum for the pseudorandom
+   transform results.
+
+commit 09600ae7e34eb777471c931cd4c3a8cdbda6e84a
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Wed Dec 12 02:41:55 2012 +0200
+
+   configure.ac: Added detection for __float128 support
+
+   GCC supports 128-bit floating point data type on some platforms (including
+   but not limited to x86 and x86-64). This may be useful for tests, which
+   need prefectly accurate reference implementations of certain algorithms.
+
+commit c3deb8334a71998b986a7b8d5b74bedf26cc23aa
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Fri Dec 14 18:43:57 2012 +0200
+
+   Add higher precision "pixman_transform_point_*" functions
+
+   The following new functions are added:
+
+   pixman_transform_point_31_16_3d() -
+   Calculates the product of a matrix and a vector multiplication.

+
+   pixman_transform_point_31_16() -
+   Calculates the product of a matrix and a vector multiplication.
+
      Then converts the homogenous resulting vector [x, y, z] to
+   cartesian [x', y', 1] variant, where x' = x / z, and y' = y / z.
+
+   pixman_transform_point_31_16_affine() -
+   A faster sibling of the other two functions, which assumes affine
+   transformation, where the bottom row of the matrix is [0, 0, 1] and
+   the last element of the input vector is set to 1.
+
+   These functions transform a point with 31.16 fixed point coordinates from
+   the destination space to a point with 48.16 fixed point coordinates in
+   the source space.
+
+   The results are accurate and the rounding errors may only show up in
+   the least significant bit. No overflows are possible for the affine
+   transformations as long as the input data is provided in 31.16 format.
+   In the case of projective transformations, some output values may be not
+   representable using 48.16 fixed point format. In this case the results
+   are clamped
 to return maximum or minimum 48.16 values (so that the caller
+   can at least handle NONE and PAD repeats correctly).
+
+commit a47ed2c31180e6c3b332747a1721731e0649b10f
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Dec 3 17:42:21 2012 +0200
+
+   Faster fetch for the C variant of r5g6b5 src/dest iterator
+
+   Processing two pixels at once is used to reduce the number of
+   arithmetic operations.
+
+   The speedup relative to the generic fetch_scanline_r5g6b5() from
+   "pixman-access.c" (pixman was compiled with gcc 4.7.2):
+
+   MIPS 74K   480MHz : 20.32 MPix/s -> 26.47 MPix/s
+   ARM11   700MHz : 34.95 MPix/s -> 38.22 MPix/s
+   ARM Cortex-A8 1000MHz : 87.44 MPix/s -> 100.92 MPix/s
+   ARM Cortex-A9 1700MHz : 150.95 MPix/s -> 158.13 MPix/s
+   ARM Cortex-A15 1700MHz : 148.91 MPix/s -> 155.42 MPix/s
+   IBM Cell PPU   3200MHz : 75.29 MPix/s -> 98.33 MPix/s
+   Intel Core i7
 2800MHz : 257.02 MPix/s -> 376.93 MPix/s
+
+   That's the performance for C code (SIMD and assembly optimizations
+   are disabled via PIXMAN_DISABLE environment variable).

```
+
+commit e66fd5ccb6b69dfa1acde36220dc3c3c44026890
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Mon Dec 3 17:07:31 2012 +0200
+
+    Faster write-back for the C variant of r5g6b5 dest iterator
+
+    Unrolling loops improves performance, so just use it here.
+
+    Also GCC can't properly optimize this code for RISC processors and
+    allocate 0x1F001F constant in a register. Because this constant is
+    too large to be represented as an immediate operand in instructions,
+    GCC inserts some redundant arithmetics. This problem can be workarounded
+    by explicitly using a variable for 0x1F001F constant and also initializing
+    it by a read from another volatile variable. In this case GCC is forced
+    to allocate a register for it, because it is not seen as a constant anymore.
+

+    The speedup relative to the generic store_scanline_r5g6b5() from
+    "pixman-access.c" (pixman was compiled with gcc 4.7.2):
+
+       MIPS 74K       480MHz  :  33.22 MPix/s ->  43.42 MPix/s
+       ARM11          700MHz  :  50.16 MPix/s ->  78.23 MPix/s
+       ARM Cortex-A8  1000MHz  : 117.75 MPix/s -> 196.34 MPix/s
+       ARM Cortex-A9  1700MHz  : 177.04 MPix/s -> 320.32 MPix/s
+       ARM Cortex-A15 1700MHz  : 231.44 MPix/s -> 261.64 MPix/s
+       IBM Cell PPU   3200MHz  : 130.25 MPix/s -> 145.61 MPix/s
+       Intel Core i7  2800MHz  : 502.21 MPix/s -> 721.73 MPix/s
+
+    That's the performance for C code (SIMD and assembly optimizations
+    are disabled via PIXMAN_DISABLE environment variable).
+
+commit a9f66694163da9e8e41a69497acbadd630e0cb51
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Mon Dec 3 06:32:46 2012 +0200
+
+    Added C variants of r5g6b5 fetch/write-back iterators
+
+    Adding specialized iterators for
 r5g6b5 color format allows us to work
+    on fine tuning performance of r5g6b5 fetch/write-back operations in the
+    pixman general "fetch -> combine -> store" pipeline.
+
+    These iterators also make "src_x888_0565" fast path redundant, so it can
+    be removed.
+
+commit 794033ed43ed74ad66075a4d0c83fd36565da876
+Author: Chris Wilson <chris@chris-wilson.co.uk>
```

+Date: Wed Jan 23 10:27:22 2013 +0000
+
+   Eliminate duplicate copies of channel flags for pixman_image_composite32()
+
+   Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit a59f081df45ec5c15b295bb31b22dbe787e2f2b1
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sat Jan 12 16:52:47 2013 +0000
+
+   Always return a valid function from lookup_combiner()
+
+   We should always have at least a C combiner available, so we never
+   expect the search to fail. If it does, emit an error and return a
+   dummy function.
+
+   Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit
 520230914bbb56473b872f2ef7dc59092f426415
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sat Jan 12 08:28:32 2013 +0000
+
+   Always return a valid function from lookup_composite()
+
+   We never expect to fail to find the appropriate function as the
+   general_composite_rect should always match. So if somehow we fallthrough
+   the search, emit a _pixman_log_error() and return a dummy function.
+
+   Note that we remove some conditionals and a level of indentation hence a
+   large amount of code movement. This also reveals that in a few places we
+   are duplicating stack variables that can be eliminated later.
+
+   Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit b283c864a3de039f9213adaf402c6597db12d0c4
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Tue Jan 8 18:39:03 2013 +0000
+
+   sse2: Add fast paths for bilinear source with a solid mask
+
+   Based on the existing sse2_8888_n_8888 nearest scaling routines.
+

+   fishbowl on an i5-2500: 60.9s -> 56.9s
+
+   Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
+

+commit d00ce4091215e8a648c6f1912829b35c02b06add
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Tue Jan 1 19:41:54 2013 +0000
+
+   sse2: Add a fast path for add_n_8_8888
+
+   This path is being exercised by compositing of trapezoids for clipmasks, for
+   instance as used in the firefox-asteroids cairo-trace.
+
+   IVB i7-3720qm ./tests/lowlevel-blt-bench add_n_8_8888:
+
+   reference memcpy speed = 14846.7MB/s (3711.7MP/s for 32bpp fills)
+
+   before: L1: 681.10 L2: 735.14 M:701.44 (28.35%) HT:283.32 VT:213.23 R:208.93 RT: 77.89 (793Kops/s)
+
+   after: L1: 992.91 L2:1017.33 M:982.58 (39.88%) HT:458.93 VT:332.32 R:326.13 RT:136.66 (1287Kops/s)
+
+   Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit 7ced3beec99e9965717f76cc822d0702383a1fce
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date:
  Tue Jan 1 19:41:54 2013 +0000
+
+   sse2: Add a fast path for add_n_8888
+
+   This path is being exercised by inplace compositing of trapezoids, for
+   instance as used in the firefox-asteroids cairo-trace.
+
+   IVB i3-3720qm ./tests/lowlevel-blt-bench add_n_888:
+
+   reference memcpy speed = 14918.3MB/s (3729.6MP/s for 32bpp fills)
+
+   before: L1:1752.44 L2:2259.48 M:2215.73 (58.80%) HT:589.49   VT:404.04   R:424.69 RT:134.68
(1182Kops/s)
+
+   after: L1:3931.21 L2:6132.78 M:3440.17 (92.24%) HT:1337.70 VT:1357.64 R:1270.27 RT:359.78
(2161Kops/s)
+
+   Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit b7f523e3bcbef1f08bf9b374f2704723d5298c1f
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Thu Jan 24 14:49:41 2013 -0500
+
+   Add a version of bilinear_interpolation for precision <=4
+
+   Having 4 or fewer bits means we can do two components at

+ a time in a single 32 bit register.
+
+ Here
 are the results for firefox-fishtank on a Pandaboard with
+ 4.6.3 and PIXMAN_DISABLE="arm-neon"
+
+ Before:
+ [#] backend test min(s) median(s) stddev. count
+ [0] image t-firefox-fishtank 7.841 7.910 0.70% 6/6
+
+ After:
+ [#] backend test min(s) median(s) stddev. count
+ [0] image t-firefox-fishtank 6.951 6.995 1.11% 6/6
+
+commit 24e83cae64eaa238a7bf67488917b0f8cac89114
+Author: Ben Avison <bavison@riscosopen.org>
+Date: Sat Jan 19 16:36:22 2013 +0000
+
+ Tweaks to lowlevel-blt-bench
+
+ This adds two extra tests, src_n_8 and src_8_8, which I have been
+ using to benchmark my ARMv6 changes.
+
+ I'd also like to propose that it requires an exact test name as the
+ executable's argument, as achieved by this strstr to strcmp change.
+ Without this, it is impossible to only benchmark (for example)
+ add_8_8, add_n_8 or
 src_n_8, due to those also being substrings of
+ many other test names.
+
+commit b527a0e615a726aa6a7d18f0ea0b38564b153afa
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 19 12:29:48 2013 -0500
+
+ test: Use operator_name() and format_name() in composite.c
+
+ With the operator_name() and format_name() functions there is no
+ longer any reason for composite.c to have its own table of format and
+ operator names.
+
+commit 4eb9a24abae6cee7562c3ec8965dc4eaaba0e8ab
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 19 09:36:50 2013 -0500
+
+ utils.[ch]: Add new format_name() function
+
+ This function returns the name of the given format code, which is
+ useful for printing out debug information. The function is written as

+ a switch without a default value so that the compiler will warn if new
+ formats are added in the future. The fake formats used in the fast
+ path tables are also recognized.
+
+ The function
 is used in alpha_map.c, where it replaces an existing
+ format_name() function, and in blitters-test.c, affine-test.c, and
+ scaling-test.c.
+
+commit 1676b4938912bd140791c347aa4d08db255dd60f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 19 08:55:27 2013 -0500
+
+ test/utils.[ch]: Add new function operator_name()
+
+ This function returns the name of the given operator, which is useful
+ for printing out debug information. The function is done as a switch
+ without a default value so that the compiler will warn if new
+ operators are added in the future.
+
+ The function is used in affine-test.c, scaling-test.c, and
+ blitters-test.c.
+
+commit 8d85311143b0bc30d3490c0ca2ddbe927a1f9ac8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 12 08:03:35 2013 -0500
+
+ README: Add guidelines on how to contribute patches
+
+ Ben Avison pointed out here:
+
+   http://lists.freedesktop.org/archives/pixman/2013-January/002485.html
+

+ that there isn't really any documentation about how to submit patches
+ to pixman. This patch adds some information to the README file.
+
+ v2: Incorporate some comments from Ben Avison
+ v3: Change gitweb URL to cgit
+
+commit 61dacffaf47e6b631a2c67230f8f111038d1de09
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Jan 18 16:53:32 2013 -0800
+
+ Convert INCLUDES to AM_CPPFLAGS
+
+ INCLUDES has been deprecated starting with automake 1.13. Convert all
+ occurrences with the recommended AM_CPPFLAGS replacement.

+
+commit c7c28f440db083d69ca930b44fc6280bb558e098
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Jan 18 16:49:00 2013 -0800
+
+   Add new demos and tests to .gitignore
+
+commit 2c6577476e5b18e17904ae8af244a39c352e2e33
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Tue Jan 22 03:01:05 2013 +0100
+
+   MIPS: DSPr2: Added more fast-paths:
+   - over_reverse_n_8888
+   - in_n_8_8
+

+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   over_reverse_n_8888 = L1: 19.42 L2: 19.07 M: 15.38 (40.80%) HT: 13.35 VT: 13.10 R: 12.92 RT:
8.27 (49Kops/s)
+   in_n_8_8 = L1: 21.20 L2: 22.86 M: 21.42 (14.21%) HT: 15.97 VT: 15.69 R: 15.47 RT: 8.00 (
48Kops/s)
+
+   Optimized:
+   over_reverse_n_8888 = L1: 60.09 L2: 47.87 M: 28.65 (76.02%) HT: 23.58 VT: 22.51 R: 21.99 RT:
12.28 (60Kops/s)
+   in_n_8_8 = L1: 89.38 L2: 86.07 M: 65.48 (43.44%) HT: 44.64 VT: 41.50 R: 40.77 RT: 16.94
(66Kops/s)
+
+commit a67b0e24d7eaba3b9525eeb8bf357ded95cc6b7c
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Tue Jan 22 02:59:44 2013 +0100
+
+   MIPS: DSPr2: Added more fast-paths for REVERSE operation:
+   - out_reverse_8_0565
+   - out_reverse_8_8888
+
+   Performance numbers before/after on MIPS-74kc
 @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   out_reverse_8_0565 = L1: 14.29 L2: 13.58 M: 12.14 (24.16%) HT: 9.23 VT: 9.12 R: 8.84 RT:
4.75 (36Kops/s)

```
+          out_reverse_8_8888 =  L1:  27.46  L2:  23.24  M: 17.41 ( 57.73%)  HT: 12.61  VT: 12.47  R: 11.79  RT:
5.86 (  41Kops/s)
+
+    Optimized:
+          out_reverse_8_0565 =  L1:  28.24  L2:  25.64  M: 20.63 ( 41.05%)  HT: 16.69  VT: 16.14  R: 15.50  RT:
8.69 (  52Kops/s)
+          out_reverse_8_8888 =  L1:  52.78  L2:  41.44  M: 23.50 ( 77.94%)  HT: 18.79  VT: 18.16  R: 16.90  RT:
9.11 (  53Kops/s)
+
+commit 35cc965514ca6e665c18411fcf66db826d559c2a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Dec 20 11:28:25 2012 -0500
+
+    pixman-filter.c: Cope with NULL returns from malloc()
+
+    v2: Don't return a pointer to uninitialized memory when the allocation
+    of horz and vert fails, but allocation of params doesn't.
+
+commit 58526cfc7290a740f61e288f09fe721c4e6511bd
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Sun Aug 26 22:06:27 2012 -0400
+
+    Handle solid images in the noop iterator
+
+    The noop src iterator already has code to handle solid images, but
+    that code never actually runs currently because it is not possible for
+    an image to have both a format code of PIXMAN_solid and a flag of
+    FAST_PATH_BITS_IMAGE.
+
+    If these two were to be set at the same time, the
+    fast_composite_tiled_repeat() fast path would trigger for solid images
+    (because it triggers for PIXMAN_any formats, which includes
+    PIXMAN_solid), but for solid images we can usually do better than that
+    fast path.
+
+    So this patch removes _pixman_solid_fill_iter_init() and instead
+    handles such images (along with repeating 1x1 bits images without an
+    alpha map) in pixman-noop.c.
+
+    When a 1x1R image is involved in the general composite path, before
+    this patch,
 it would hit this code in repeat() in pixman-inlines.h:
+
+          while (*c >= size)
+              *c -= size;
+          while (*c < 0)
+              *c += size;
```

+
+ and those loops could run for a huge number of iteratons (proportional
+ to the composite width). For such cases, the performance improvement
+ is really big:
+
+ ./test/lowlevel-blt-bench -n add_n_8888:
+
+ Before:
+
+ add_n_8888 = L1: 3.86 L2: 3.78 M: 1.40 (0.06%) HT: 1.43 VT: 1.41 R: 1.41 RT: 1.38 (
19Kops/s)
+
+ After:
+
+ add_n_8888 = L1:1236.86 L2:2468.49 M:1097.88 (49.04%) HT:476.49 VT:429.05 R:417.04 RT:155.12
(817Kops/s)
+
+commit 480dd38fd190fb7ca4ff172a31a4a6ef2944f20c
+Author: Marko Lindqvist <cazfi74@gmail.com>
+Date: Thu Jan 3 06:38:01 2013 +0200
+
+ Fix build with automake-1.13
+
+ Automake-1.13 has removed long obsolete AM_CONFIG_HEADER macro (
+ http://lists.gnu.org/archive/html/automake/2012-12/msg00038.html
)
+ and autoreconf errors out upon seeing it.
+
+ Attached patch replaces obsolete AM_CONFIG_HEADER with now proper
+ AC_CONFIG_HEADERS.
+
+commit 1abde88ae60ae0877073d85cbf5b39013337f5da
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Thu Dec 20 05:14:39 2012 +0200
+
+ Use more appropriate types and remove a magic constant
+
+commit c1fd5a42439b21872170979d8c400cbb374e1f9d
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Thu Dec 20 05:00:46 2012 +0200
+
+ Define SIZE_MAX if it is not provided by the standard C headers
+
+ C++ compilers do not define SIZE_MAX. It is also not available
+ if the code is compiled by some C compilers:
+ http://lists.freedesktop.org/archives/pixman/2012-August/002196.html
+
+commit 66c429282282176cdb5913b7396116c28725363e

```
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Sun Dec 16 04:03:58 2012 +0200
+
+    Rename 'xor' variable to 'filler' (because
 'xor' is a C++ keyword)
+
+commit 4dfda2adfe2eb1130fc27b1da35df778284afd91
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Fri Dec 14 21:53:34 2012 -0500
+
+    float-combiner.c: Change tests for x == 0.0 tests to - FLT_MIN < x < FLT_MIN
+
+    pixman-float-combiner.c currently uses checks like these:
+
+        if (x == 0.0f)
+            ...
+        else
+            ... / x;
+
+    to prevent division by 0. In theory this is correct: a division-by-zero
+    exception is only supposed to happen when the floating point numerator is
+    exactly equal to a positive or negative zero.
+
+    However, in practice, the combination of x87 and gcc optimizations
+    causes issues. The x87 registers are 80 bits wide, which means the
+    initial test:
+
+     if (x == 0.0f)
+
+    may be false when x is an 80 bit floating point number, but when x is
+    rounded to a 32 bit single precision number, it becomes equal to
+    0.0. In principle, gcc should compensate
 for this quirk of x87, and
+    there are some options such as -ffloat-store, -fexcess-precision=standard,
+    and -std=c99 that will make it do so, but these all have a performance
+    cost.  It is also possible to set the FPU to a mode that makes it do
+    all computation with single or double precision, but that would
+    require pixman to save the existing mode before doing anything with
+    floating point and restore it afterwards.
+
+    Instead, this patch side-steps the issue by replacing exact checks for
+    equality with zero with a new macro that checkes whether the value is
+    between -FLT_MIN and FLT_MIN.
+
+    There is extensive reading material about this issue linked off the
+    infamous gcc bug 323:
+
+        http://gcc.gnu.org/bugzilla/show_bug.cgi?id=323
```

+
+commit 2734071d7bee699401dc8c98d5c2ef0e2dbb0c91
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Thu Dec 6 17:13:16 2012 +0200
+
+   ARM: make use of UQADD8 instruction
 even in generic C code paths
+
+   ARMv6 has UQADD8 instruction, which implements unsigned saturated
+   addition for 8-bit values packed in 32-bit registers. It is very useful
+   for UN8x4_ADD_UN8x4, UN8_rb_ADD_UN8_rb and ADD_UN8 macros (which would
+   otherwise need a lot of arithmetic operations to simulate this operation).
+   Since most of the major ARM linux distros are built for ARMv7, we are
+   much less dependent on runtime CPU detection and can get practical
+   benefits from conditional compilation here for a lot of users.
+
+   The results of cairo-perf-trace benchmark on ARM Cortex-A15 with pixman
+   compiled by gcc 4.7.2 and PIXMAN_DISABLE set to "arm-simd arm-neon":
+
+   Speedups
+   ========
+   image   firefox-talos-gfx (29938.22 0.12%) -> (27814.76 0.51%) : 1.08x speedup
+   image   firefox-asteroids (23241.11 0.07%) -> (21795.19 0.07%) : 1.07x speedup
+   image firefox-canvas-alpha (174519.85 0.08%) -> (164788.64 0.20%) : 1.06x
 speedup
+   image   poppler   (9464.46 1.61%) ->   (8991.53 0.14%) : 1.05x speedup
+
+commit f9a41703b2d46c988b9e4e378d27396f718006ae
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Dec 3 03:01:21 2012 +0200
+
+   Faster conversion from a8r8g8b8 to r5g6b5 in C code
+
+   This change reduces 3 shifts, 3 ANDs and 2 ORs (total 8 arithmetic
+   operations) to 3 shifts, 2 ANDs and 2 ORs (total 7 arithmetic
+   operations).
+
+   We get garbage in the high 16 bits of the result, which might need
+   to be cleared when casting to uint16_t (it would bring us back to
+   total 8 arithmetic operations). However in the case if the result
+   of a8r8g8b8->r5g6b5 conversion is immediately stored to memory, no
+   extra instructions for clearing these garbage bits are needed.
+
+   This allows the a8r8g8b8->r5g6b5 conversion code to be compiled
+   into 4 instructions for ARM instead of 5 (assuming a good optimizing
+   compiler), which has
 no pipeline stalls on ARM11 as an additional
+   bonus.

+
+ The change in benchmark results for 'lowlevel-blt-bench src_8888_0565'
+ with PIXMAN_DISABLE="arm-simd arm-neon mips-dspr2 mmx sse2" and pixman
+ compiled by gcc-4.7.2:
+
+ MIPS 74K 480MHz : 40.44 MPix/s -> 40.13 MPix/s
+ ARM11 700MHz : 50.28 MPix/s -> 62.85 MPix/s
+ ARM Cortex-A8 1000MHz : 124.38 MPix/s -> 141.85 MPix/s
+ ARM Cortex-A15 1700MHz : 281.07 MPix/s -> 303.29 MPix/s
+ Intel Core i7 2800MHz : 515.92 MPix/s -> 531.16 MPix/s
+
+ The same trick was used in xomap (X server for Nokia N800/N810):
+ http://repository.maemo.org/pool/diablo/free/x/xorg-server/
+ xorg-server_1.3.99.0~git20070321-0osso20083801.tar.gz
+
+commit 3922e90c400fca3ac43dc77b8dd0c0591e7e4fbc
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Dec 3 02:50:20 2012 +0200
+
+ Change CONVERT_XXXX_TO_YYYY macros into inline functions
+

+ It is easier and safer to modify their code in the case if the
+ calculations need some temporary variables. And the temporary
+ variables will be needed soon.
+
+commit e4519360c15772ac51038b9f86e3f730f06cfb65
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Dec 3 05:44:36 2012 +0200
+
+ test: add "src_0565_8888" to lowlevel-blt-bench
+
+commit 6a6c8c51ed9e7272e624b3c99187ddf71d19a0fd
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Dec 13 15:37:40 2012 -0500
+
+ pixman_composite_trapezoids(): Check for NULL return from create_bits()
+
+ A check is needed that the creation of the temporary image in
+ pixman_composite_trapezoids() succeeds.
+
+ Fixes crash in stress-test -s 0x313c on my system.
+
+commit c2cb303d33ec11390b93cabd90f0f95bc9264113
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Dec 13 15:26:17 2012 -0500
+
+ pixman_composite_trapezoids: Return early if mask_format is not of TYPE_ALPHA

+

+   stress-test -s 0x17ee crashes because pixman_composite_trapezoids() is
+   given a mask_format of PIXMAN_c8, which causes it to create a
+   temporary image with that format but without a palette. This causes
+   crashes later.
+
+   The only mask_format that we actually support are those of TYPE_ALPHA,
+   so this patch add a return_if_fail() to ensure this.
+
+   Similarly, although currently it won't crash if given an invalid
+   format, alpha-only formats have always been the only thing that made
+   sense for the pixman_rasterize_edges() functions, so add a
+   return_if_fail() ensuring that the destination format is of type
+   PIXMAN_TYPE_ALPHA.
+
+commit 1f0c02811ea71b36380b9d4029a248659bd9af50
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Dec 13 11:21:16 2012 -0500
+
+   Add testing of trapezoids to stress-test
+
+   The entry points add_trapezoids(), rasterize_trapezoid() and
+   composite_trapezoid() are exercised with
 random trapezoids.
+
+   This uncovers crashes with stress-test seeds 0x17ee and 0x313c.
+
+commit 526dc06e5694172abf979c03a5cf530207fe2d27
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Dec 8 06:06:34 2012 -0500
+
+   demos/radial-test: Add checkerboard to display the alpha channel
+
+commit 6402b2aa0c2215a5add233b3c1bc2ae634d43aaf
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Dec 8 06:46:38 2012 -0500
+
+   demos/conical-test: Use the draw_checkerboard() utility function
+
+   Instead of having its own copy.
+
+commit e382e52d675a4ae86ed94ab1124ea7d98c3db75a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Dec 8 06:44:24 2012 -0500
+
+   test/utils.[ch]: Add utility function to draw a checkerboard
+

+ This is useful in demo programs to display the alpha channel.
+
+commit b0a6504122ba4f585fb60626ec71bf613fc64fae
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 7 19:51:19 2012 -0500
+
+ radial: When
comparing t to mindr, use >= rather than >
+
+ Radial gradients are conceptually rendered as a sequence of circles
+ generated by linearly extrapolating from the two circles given by the
+ gradient specification. Any circles in that sequence that would end up
+ with a negative radius are not drawn, a condition that is enforced by
+ checking that t * dr is bigger than mindr:
+
+ if (t * dr > mindr)
+
+ However, it is legitimate for a circle to have radius exactly 0, so
+ the test should use >= rather than >.
+
+ This gets rid of the dots in demos/radial-test except for when the c2
+ circle has radius 0 and a repeat mode of either NONE or NORMAL. Both
+ those dots correspond to a t value of 1.0, which is outside the
+ defined interval of [0.0, 1.0) and therefore subject to the repeat
+ algorithm. As a result, in the NONE case, a value of 1.0 turns into
+ transparent black. In the NORMAL case, 1.0 wraps around and becomes
+
0.0 which is red, unlike 0.99 which is blue.
+
+ Cc: ranma42@gmail.com
+
+commit 54aca22058e8f4daf999b37e5c5e6ddd8e67f811
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 7 19:43:53 2012 -0500
+
+ demos/radial-test: Add zero-radius circles to demonstrate rendering bugs
+
+ Add two new gradient columns, one where the start circle is has radius
+ 0 and one where the end circle has radius 0. All the new gradients
+ except for one are rendered with a bright dot in the middle. In most
+ but not all cases this is incorrect.
+
+ Cc: ranma42@gmail.com
+
+commit fdab3c1b6cd9c5e197ec3f6bc0a03da32880e317
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Dec 8 15:16:51 2012 +0200
+

+ test: Workaround unaligned MOVDQA bug (http://gcc.gnu.org/PR55614)
+
+ Just use SSE2 intrinsics to do unaligned memory accesses as
+ a workaround for this gcc bug related to vector extensions.
+
+commit 2bc59006d7fe91abf68a2061ad86c06e1b2964ab
+Author:
Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Fri Nov 30 12:00:47 2012 +0200
+
+ Improve performance of combine_over_u
+
+ The generic C over_u combiner can be a lot faster with the
+ addition of special shortcuts for 0xFF and 0x00 alpha/mask
+ values. This is already implemented in C and SSE2 fast paths.
+
+ Profiling the run of cairo-perf-trace benchmarks with PIXMAN_DISABLE
+ environment variable set to "fast mmx sse2" on Intel Core i7:
+
+ === before ===
+
+ 37.32% cairo-perf-trac libpixman-1.so.0.29.1 [.] combine_over_u
+ 21.37% cairo-perf-trac libpixman-1.so.0.29.1 [.] bits_image_fetch_bilinear_no_repeat_8888
+ 13.51% cairo-perf-trac libpixman-1.so.0.29.1 [.] bits_image_fetch_bilinear_affine_none_a8r8g8b8
+ 2.96% cairo-perf-trac libpixman-1.so.0.29.1 [.] radial_compute_color
+ 2.74% cairo-perf-trac libpixman-1.so.0.29.1 [.] fetch_scanline_a8
+ 2.71% cairo-perf-trac libpixman-1.so.0.29.1
[.] fetch_scanline_x8r8g8b8
+ 2.17% cairo-perf-trac libpixman-1.so.0.29.1 [.] _pixman_gradient_walker_pixel
+ 1.86% cairo-perf-trac libcairo.so.2.11200.0 [.] _cairo_tor_scan_converter_generate
+ 1.57% cairo-perf-trac libpixman-1.so.0.29.1 [.] bits_image_fetch_bilinear_affine_pad_a8r8g8b8
+ 0.97% cairo-perf-trac libpixman-1.so.0.29.1 [.] combine_in_reverse_u
+ 0.96% cairo-perf-trac libpixman-1.so.0.29.1 [.] combine_over_ca
+
+ === after ===
+
+ 28.79% cairo-perf-trac libpixman-1.so.0.29.1 [.] bits_image_fetch_bilinear_no_repeat_8888
+ 18.44% cairo-perf-trac libpixman-1.so.0.29.1 [.] bits_image_fetch_bilinear_affine_none_a8r8g8b8
+ 15.54% cairo-perf-trac libpixman-1.so.0.29.1 [.] combine_over_u
+ 3.94% cairo-perf-trac libpixman-1.so.0.29.1 [.] radial_compute_color
+ 3.69% cairo-perf-trac libpixman-1.so.0.29.1 [.] fetch_scanline_a8
+ 3.69% cairo-perf-trac libpixman-1.so.0.29.1 [.] fetch_scanline_x8r8g8b8
+
2.94% cairo-perf-trac libpixman-1.so.0.29.1 [.] _pixman_gradient_walker_pixel
+ 2.52% cairo-perf-trac libcairo.so.2.11200.0 [.] _cairo_tor_scan_converter_generate
+ 2.08% cairo-perf-trac libpixman-1.so.0.29.1 [.] bits_image_fetch_bilinear_affine_pad_a8r8g8b8
+ 1.31% cairo-perf-trac libpixman-1.so.0.29.1 [.] combine_in_reverse_u
+ 1.29% cairo-perf-trac libpixman-1.so.0.29.1 [.] combine_over_ca

+
+commit 8ca4e144724ba2041bc5ef077ccf6d24e7cf4d1f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Nov 26 14:27:34 2012 -0500
+
+   Add fast paths for separable convolution
+
+   Similar to the fast paths for general affine access, add some fast
+   paths for the separable filter for all combinations of formats
+   x8r8g8b8, a8r8g8b8, r5g6b5, a8 with the four repeat modes.
+
+   It is easy to see the speedup in the demos/scale program.
+
+commit 4f18ba30cea56331e30992242201b20954c8f7f2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Tue Dec 4 13:17:49 2012 -0500
+
+   Add demo program for conical gradients
+
+   This new test is derived from radial-test.c and displays conical
+   gradients at various angles.
+
+   It also demonstrates how PIXMAN_REPEAT_NORMAL is supposed to work when
+   used with a gradient specification where the first stop is not a 0.0:
+   In this case the gradient is supposed to have a smooth transition from
+   the last stop back to the first stop with no sharp transitions. It
+   also shows that the repeat mode is not ignored for conical gradients
+   as one might be tempted to think.
+
+commit 3a98787bddeb007a1cd2b86235205774c15250f2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Nov 12 12:27:39 2012 -0500
+
+   Add demos/zone_plate.png
+
+   The zone plate image is a useful test case for image scalers because
+   it contains all representable frequencies, so any imperfection in
+   resampling filters will show up as Moire patterns.
+
+   This
 version is symmetric around the midpoint of the image, so since
+   rotating it is supposed to be a noop, it can also be used to verify
+   that the resampling filters don't shift the image.
+
+   V2: Run the file through OptiPNG to cut the size in half, as suggested
+   by Siarhei.
+

```
+commit 97491ed26cfd4bad9cceffa789bfcbef77421d38
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Nov 22 10:18:26 2012 -0500
+
+    demos: Add new demo program, "scale"
+
+    This program allows interactively scaling and rotating images with
+    using various filters and repeat modes. It uses
+    pixman_filter_create_separate_convolution() to generate the filters.
+
+commit 7f5bb22d17f17c2032914163a318f4ec438ba280
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Nov 22 10:16:16 2012 -0500
+
+    demos/gtk-utils.[ch]: Add pixman_image_from_file()
+
+    This function uses GdkPixbuf to load various common formats such as
+    .png and .jpg into a pixman image.
+
+commit
 6915f3e24f4169260a8ad6ab7ff3087388dbe5db
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Nov 22 10:15:06 2012 -0500
+
+    Add new pixman_filter_create_separable_convolution() API
+
+    This new API is a helper function to create filter parameters suitable
+    for use with PIXMAN_FILTER_SEPARABLE_CONVOLUTION.
+
+    For each dimension, given a scale factor, reconstruction and sample
+    filter kernels, and a subsampling resolution, this function will
+    compute a convolution of the two kernels scaled appropriately, then
+    sample that convolution and return the resulting vectors in a form
+    suitable for being used as parameters to
+    PIXMAN_FILTER_SEPARABLE_CONVOLUTION.
+
+    The filter kernels offered are the following:
+
+     - IMPULSE:          Dirac delta function, ie., point sampling
+     - BOX:              Box filter
+     - LINEAR:           Linear filter, aka. "Tent" filter
+     - CUBIC:            Cubic
 filter, currently Mitchell-Netravali
+     - GAUSSIAN:         Gaussian function, sigma=1, support=3*sigma
+     - LANCZOS2:         Two-lobed Lanczos filter
+     - LANCZOS3:         Three-lobed Lanczos filter
+     - LANCZOS3_STRETCHED: Three-lobed Lanczos filter, stretched by 4/3.0.
+                         This is the "Nice" filter from Dirty Pixels by
```

+ Jim Blinn.
+
+ The intended way to use this function is to extract scaling factors
+ from the transformation and then pass those to this function to get a
+ filter suitable for compositing with that transformation. The filter
+ kernels can be chosen according to quality and performance tradeoffs.
+
+ To get equivalent quality to GdkPixbuf for downscalings, use BOX for
+ both reconstruction and sampling. For upscalings, use LINEAR for
+ reconstruction and IMPULSE for sampling (though note that for
+ upscaling in both X and Y directions, simply using
+ PIXMAN_FILTER_BILINEAR
 will likely be a better choice).
+
+commit 68760d3fe1351cb745aedcada7d765edc08bbe8b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Nov 22 10:17:56 2012 -0500
+
+ rounding.txt: Describe how SEPARABLE_CONVOLUTION filter works
+
+ Add some notes on how to compute the convolution matrices to be used
+ with the SEPARABLE_CONVOLUTION filter.
+
+commit 6fd480b17c8398c217e4c11e826c82dbb8288006
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Nov 22 10:14:06 2012 -0500
+
+ Add new filter PIXMAN_FILTER_SEPARABLE_CONVOLUTION
+
+ This filter is a new way to use a convolution matrix for filtering. In
+ contrast to the existing CONVOLUTION filter, this new variant is
+ different in two respects:
+
+ - It is subsampled: Instead of just one convolution matrix, this
+ filter chooses between a number of matrices based on the subpixel
+ sample location, allowing the convolution kernel to be sampled at a
+ higher
 resolution.
+
+ - It is separable: Each matrix is specified as the tensor product of
+ two vectors. This has the advantages that many fewer values have to
+ be stored, and that the filtering can be done separately in the x
+ and y dimensions (although the initial implementation doesn't
+ actually do that).
+
+ The motivation for this new filter is to improve image downsampling
+ quality. Currently, the best pixman can do is the regular convolution
+ filter which is limited to coarsely sampled convolution kernels.

+
+   With this new feature, any separable filter can be used at any desired
+   resolution.
+
+commit 7e39861da3655779ce76a72592feed3c1dd90017
+Author: Benjamin Gilbert <bgilbert@backtick.net>
+Date: Sat Dec 1 23:55:31 2012 -0500
+
+   Fix thread safety on mingw-w64 and clang
+
+   After finding a working TLS storage class specifier, configure was
+   continuing to test other candidates. This caused it to prefer
+
  __declspec(thread) over __thread. However, __declspec(thread) is
+   ignored with a warning by mingw-w64 [1] and silently ignored by clang [2].
+   The resulting binary behaved as if PIXMAN_NO_TLS was defined.
+
+   Bug introduced by a069da6c.
+
+   [1] https://bugs.freedesktop.org/show_bug.cgi?id=57591
+   [2] http://lists.freedesktop.org/archives/pixman/2012-October/002320.html
+
+commit ebedd9a2ad8e841cd8323838b5136657d9ebb988
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sun Nov 25 02:59:25 2012 +0200
+
+   test: Get rid of the obsolete 'prng_rand_N' and 'prng_rand_u32'
+
+   They are the same as 'prng_rand_n' and 'prng_rand'
+
+commit b31a696263f1ae9aebb9bb21b93a0c15453bf611
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sun Nov 25 02:50:35 2012 +0200
+
+   test: Switch to the new PRNG instead of old LCG
+
+   Wallclock time for running pixman "make check" (compile time not included):
+
+   ----------------------------+----------------+-----------------------------+
+
                          | old PRNG (LCG) | new PRNG (Bob Jenkins) |
+   Processor type   +----------------+-------------+----------------+
+ | gcc 4.5 | gcc 4.5 | gcc 4.7 (simd) |
+   ----------------------------+----------------+-------------+----------------+
+   quad Intel Core i7 @2.8GHz | 0m49.494s | 0m43.722s | 0m37.560s |
+   dual ARM Cortex-A15 @1.7GHz | 5m8.465s | 4m37.375s | 3m45.819s |
+   IBM Cell PPU   @3.2GHz | 23m0.821s | 20m38.316s | 16m37.513s |
+   ----------------------------+----------------+-------------+----------------+

```
+
+   But some tests got a particularly large boost. For example benchmarking and
+   profiling blitters-test on Core i7:
+
+   === before ===
+
+   $ time ./blitters-test
+
+   real    0m10.907s
+   user    0m55.650s
+   sys     0m0.000s
+
+     70.45%  blitters-test
  blitters-test       [.] create_random_image
+     15.81%  blitters-test  blitters-test       [.] compute_crc32_for_image_internal
+      2.26%  blitters-test  blitters-test       [.] _pixman_implementation_lookup_composite
+      1.07%  blitters-test  libc-2.15.so        [.] _int_free
+      0.89%  blitters-test  libc-2.15.so        [.] malloc_consolidate
+      0.87%  blitters-test  libc-2.15.so        [.] _int_malloc
+      0.75%  blitters-test  blitters-test       [.] combine_conjoint_general_u
+      0.61%  blitters-test  blitters-test       [.] combine_disjoint_general_u
+      0.40%  blitters-test  blitters-test       [.] test_composite
+      0.31%  blitters-test  libc-2.15.so        [.] _int_memalign
+      0.31%  blitters-test  blitters-test       [.] _pixman_bits_image_setup_accessors
+      0.28%  blitters-test  libc-2.15.so        [.] malloc
+
+   === after ===
+
+   $ time ./blitters-test
+
+   real    0m3.655s
+   user    0m20.550s
+
    sys     0m0.000s
+
+     41.77%  blitters-test.n  blitters-test.new  [.] compute_crc32_for_image_internal
+     15.77%  blitters-test.n  blitters-test.new  [.] prng_randmemset_r
+      6.15%  blitters-test.n  blitters-test.new  [.] _pixman_implementation_lookup_composite
+      3.09%  blitters-test.n  libc-2.15.so       [.] _int_free
+      2.68%  blitters-test.n  libc-2.15.so       [.] malloc_consolidate
+      2.39%  blitters-test.n  libc-2.15.so       [.] _int_malloc
+      2.27%  blitters-test.n  blitters-test.new  [.] create_random_image
+      2.22%  blitters-test.n  blitters-test.new  [.] combine_conjoint_general_u
+      1.52%  blitters-test.n  blitters-test.new  [.] combine_disjoint_general_u
+      1.40%  blitters-test.n  blitters-test.new  [.] test_composite
+      1.02%  blitters-test.n  blitters-test.new  [.] prng_srand_r
+      1.00%  blitters-test.n  blitters-test.new  [.] _pixman_image_validate
+      0.96%  blitters-test.n  blitters-test.new  [.] _pixman_bits_image_setup_accessors
```

```
+
     0.90%  blitters-test.n  libc-2.15.so       [.] malloc
+
+commit 309e66f047cab0951d8e42628dcd181e2d14c58d
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Sat Nov 24 23:22:48 2012 +0200
+
+    test: Search/replace 'lcg_*' -> 'prng_*'
+
+    The 'lcg' prefix is going to be misleading if we replace
+    PRNG algorithm.
+
+commit d6545a2fc6f65c4959c6f85a15e95675347c0940
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Sat Nov 24 19:43:41 2012 +0200
+
+    test: Added a better PRNG (pseudorandom number generator)
+
+    This adds a fast SIMD-optimized variant of a small noncryptographic
+    PRNG originally developed by Bob Jenkins:
+       http://www.burtleburtle.net/bob/rand/smallprng.html
+
+    The generated pseudorandom data is good enough to pass "Big Crush"
+    tests from TestU01 (http://en.wikipedia.org/wiki/TestU01).
+
+    SIMD code uses http://gcc.gnu.org/onlinedocs/gcc/Vector-Extensions.html
+
   which is a GCC specific extension. There is also a slower alternative
+    code path, which should work with any C compiler.
+
+    The performance of filling buffer with random data:
+      Intel Core i7  @2.8GHz (SSE2)     : ~5.9 GB/s
+      ARM Cortex-A15 @1.7GHz (NEON)     : ~2.2 GB/s
+      IBM Cell PPU   @3.2GHz (Altivec)  : ~1.7 GB/s
+
+commit 41f98a07fc3235b64713a39238238801304ac346
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Fri Nov 23 09:07:23 2012 +0200
+
+    test: Change is_little_endian() into inline function
+
+    Also dropped redundant volatile keyword because any object
+    can be accessed via char* pointer without breaking aliasing
+    rules. The compilers are able to optimize this function to either
+    constant 0 or 1.
+
+commit 978bab253d1d061b00b5e80aa45ab6986aac466f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
```

+Date: Wed Nov 21 11:43:31 2012 -0500
+
+   Add text file rounding.txt describing how rounding works
+

+   It is not entirely obvious how pixman gets from "location in the
+   source image" to "pixel value stored in the destination". This file
+   describes how the filters work, and in particular how positions are
+   rounded to samples.
+
+commit 74319e9d39f5d7f85cb75fcb91343f298b0e62e2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Nov 20 23:28:43 2012 -0500
+
+   Convolution filter: round color values instead of truncating
+
+   The pixel computed by the convolution filter should be rounded off,
+   not truncated. As a simple example consider a convolution matrix
+   consisting of five times 0x3333. If all five all five input pixels are
+   0xff, then the result of truncating will be
+
+   (5 * 0x3333 * 255) >> 16 = 254
+
+   But the real value of the computation is (5 * 0x3333 / 65536.0) * 254
+   = 254.9961, so the error is almost 1. If the user isn't very careful
+   about normalizing the convolution kernel so that it sums to one
 in
+   fixed point, such error might cause solid images to change color, or
+   opaque images to become translucent.
+
+   The fix is simply to round instead of truncate.
+
+commit f0816ddaf4e61d9295de5b1cbe51f956db7fbd16
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Nov 20 03:23:51 2012 -0500
+
+   Round fixed-point multiplication
+
+   After two fixed-point numbers are multiplied, the result is shifted
+   into place, but up until now pixman has simply discarded the low-order
+   bits instead of rounding to the closest number.
+
+   Fix that by adding 0x8000 (or 0x2 in one place) before shifting and
+   update the test checksums to match.
+
+commit 44dd746bb68625b2f6be77c3f80292b45defe9d7
+Author: Stefan Weil <sw@weilnetz.de>
+Date: Tue Nov 13 19:44:44 2012 +0100

```
+
+    test: Fix compiler warnings caused by unused code
+
+    Signed-off-by: Stefan Weil <sw@weilnetz.de>
+
+commit 5f96022d3bca15050958512f1c15a0067d2225af
+Author: Stefan Weil
 <sw@weilnetz.de>
+Date:   Tue Nov 13 19:38:32 2012 +0100
+
+    pixman: Use uintptr_t in type casts from pointer to integral value
+
+    These modifications fix lots of compiler warnings for systems where
+    sizeof(unsigned long) != sizeof(void *).
+    This is especially true for MinGW-w64 (64 bit Windows).
+
+    Signed-off-by: Stefan Weil <sw@weilnetz.de>
+
+commit a96efd02d68b726d6d140d0bd211bc7cc1be127a
+Author: Stefan Weil <sw@weilnetz.de>
+Date:   Tue Nov 13 19:44:15 2012 +0100
+
+    Always use xmmintrin.h for 64 bit Windows
+
+    MinGW-w64 uses the GNU compiler and does not define _MSC_VER.
+    Nevertheless, it provides xmmintrin.h and must be handled
+    here like the MS compiler. Otherwise compilation fails due to
+    conflicting declarations.
+
+    Signed-off-by: Stefan Weil <sw@weilnetz.de>
+
+commit 899e0d60524bcd2cff6cad6acb310181fb96b39a
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date:   Mon Nov 12 22:48:51 2012 +0100
+
+    MIPS: DSPr2:
 Added several nearest neighbor fast paths with a8 mask:
+
+    Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+    lowlevel-blt-bench -n
+
+    Referent (before):
+            over_8888_8_0565 =  L1:  9.62  L2:  8.85  M:  7.40 ( 39.27%)  HT:  5.67  VT:  5.61  R:  5.45  RT:  2.98 (
22Kops/s)
+            over_0565_8_0565 =  L1:  7.90  L2:  7.49  M:  6.72 ( 26.75%)  HT:  5.24  VT:  5.20  R:  5.06  RT:  2.90 (
22Kops/s)
+
```

+   Optimized:
+   over_8888_8_0565 = L1: 18.51 L2: 16.82 M: 12.13 (64.43%) HT: 10.06 VT: 9.88 R: 9.54 RT: 5.63 (31Kops/s)
+   over_0565_8_0565 = L1: 14.82 L2: 13.94 M: 11.34 (45.20%) HT: 9.45 VT: 9.35 R: 9.03 RT: 5.50 (31Kops/s)
+
+commit a432bdce6637aa96060b9f1e25aae51c6fb95670
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Nov 12 22:48:53 2012 +0100
+
+   MIPS: DSPr2: Added more fast-paths for OVER operation:
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+

+   lowlevel-blt-bench results
+
+   Referent (before):
+   over_n_0565 = L1: 14.48 L2: 21.36 M: 17.57 (23.30%) HT: 6.95 VT: 6.44 R: 6.39 RT: 2.16 (22Kops/s)
+   over_n_8888 = L1: 92.60 L2: 86.13 M: 24.41 (64.74%) HT: 8.94 VT: 8.06 R: 8.00 RT: 2.53 (25Kops/s)
+
+   Optimized:
+   over_n_0565 = L1: 27.65 L2: 189.22 M: 58.19 (77.12%) HT: 52.80 VT: 49.88 R: 47.53 RT: 23.67 (72Kops/s)
+   over_n_8888 = L1: 235.99 L2: 230.86 M: 29.09 (77.11%) HT: 27.95 VT: 27.24 R: 26.58 RT: 18.10 (67Kops/s)
+
+commit e33e9d3f55590c369c532b0305f928045e0a46cb
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Nov 12 22:48:52 2012 +0100
+
+   MIPS: DSPr2: Added more fast-paths for SRC operation:
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   src_n_8_8888 = L1: 13.79 L2: 22.47 M: 17.55 (58.28%)
 HT: 6.95 VT: 6.46 R: 6.34 RT: 2.07 (20Kops/s)
+   src_n_8_8 = L1: 20.22 L2: 20.21 M: 18.20 (24.17%) HT: 6.65 VT: 6.22 R: 6.11 RT: 2.03 (20Kops/s)
+
+   Optimized:
+   src_n_8_8888 = L1: 58.31 L2: 53.34 M: 25.69 (85.29%) HT: 22.55 VT: 21.44 R: 19.91 RT: 10.34 (48Kops/s)

+ src_n_8_8 = L1: 102.60 L2: 89.43 M: 65.01 (86.32%) HT: 37.87 VT: 37.02 R: 32.43 RT: 12.41 (51Kops/s)
+
+commit d881e1f5801ca0aefecccb43db05db539b3080d5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Nov 11 14:05:54 2012 -0500
+
+ Allow src and dst to be identical in pixman_f_transform_invert()
+
+ It is useful to be able to invert a matrix in place, but currently
+ pixman_f_transform_invert() will produce wrong results if you pass the
+ same matrix as both source and destination.
+
+ Fix that by inverting into a temporary matrix and then copying that to
+ the destination.
+
+commit 614e7aaf14652c726b067bbc7562ef237dcd50de
+Author:
Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Nov 8 03:11:51 2012 -0500
+
+ pixman.h: Add typedefs for pixman_f_transform and pixman_f_vector
+
+commit b2e0e240fec4a8eaa7fe8da3a6807bcb8ac97edf
+Author: Joshua Root <jmr@macports.org>
+Date: Fri Nov 9 14:39:14 2012 +1100
+
+ Fix undeclared variable use and sysctlbyname error handling on ppc
+
+ Fixes bug 56889.
+
+commit 400436dc52450359de35cac9efa6aea631cf34e9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 31 13:14:07 2012 -0400
+
+ pixman_image_composite: Reduce opaque masks to NULL
+
+ When the mask is known to be opaque, we might as well reduce it to
+ NULL to take advantage of the various fast paths that operate on NULL
+ masks.
+
+commit f2ada9e63fdd1034766e86d71008e0d819074f27
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Nov 7 13:45:09 2012 -0500
+
+ Post-release version bump to 0.29.1
+
+commit 8a2ff3e0ef0449921d962f8b9c093c2353ffd945

+Author:
Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Nov 7 13:40:34 2012 -0500
+
+   Pre-release version bump to 0.28.0
+
+commit 4b91f6ca72db3e8cbd7e97e9ef44be2f8994040d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Oct 25 10:42:26 2012 -0400
+
+   Post-release version bump to 0.27.5
+
+commit 0de3f3344908757b61f9f51b59d4a39f7447451b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Oct 25 10:35:27 2012 -0400
+
+   Pre-release version bump to 0.27.4
+
+commit f0750258459580bbc9f136710f8e5c551bd01a0f
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Sun Oct 14 11:58:52 2012 +0200
+
+   MIPS: DSPr2: Added more fast-paths for ADD operation: - add_8888_8888_8888 - add_8_8 - add_8888_8888
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   add_8888_8888_8888 = L1: 17.55 L2: 13.35 M: 8.13 (93.95%) HT: 6.60
 VT: 6.64 R: 6.45 RT: 3.47 (26Kops/s)
+   add_8_8   = L1: 86.07 L2: 84.89 M: 62.36 (90.11%) HT: 36.36 VT: 34.74 R: 29.56 RT: 11.56 (
52Kops/s)
+   add_8888_8888   = L1: 95.59 L2: 73.05 M: 17.62 (101.84%) HT: 15.46 VT: 15.01 R: 13.94 RT:
6.71 (42Kops/s)
+
+   Optimized:
+   add_8888_8888_8888 = L1: 41.52 L2: 33.21 M: 11.97 (138.45%) HT: 10.47 VT: 10.19 R: 9.42 RT:
4.86 (32Kops/s)
+   add_8_8   = L1: 135.06 L2: 104.82 M: 57.13 (82.58%) HT: 34.79 VT: 36.60 R: 28.28 RT: 10.54
(51Kops/s)
+   add_8888_8888   = L1: 176.36 L2: 67.82 M: 17.48 (101.06%) HT: 15.16 VT: 14.62 R: 13.88 RT:
8.05 (45Kops/s)
+
+commit ca83717c63813b6f53f89dd94b5771bd32382a18
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Sun Oct 14 11:58:51 2012 +0200
+

+ MIPS: DSPr2: Added more fast-paths for ADD operation: - add_0565_8_0565 - add_8888_8_8888 - add_8888_n_8888
+
+
Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench results
+
+ Referent (before):
+ add_0565_8_0565 = L1: 8.89 L2: 8.37 M: 7.35 (29.22%) HT: 5.90 VT: 5.85 R: 5.67 RT: 3.31 (26Kops/s)
+ add_8888_8_8888 = L1: 17.22 L2: 14.17 M: 9.89 (65.56%) HT: 7.57 VT: 7.50 R: 7.36 RT: 4.10 (30Kops/s)
+ add_8888_n_8888 = L1: 17.79 L2: 14.87 M: 10.35 (54.89%) HT: 5.19 VT: 4.93 R: 4.92 RT: 1.90 (19Kops/s)
+
+ Optimized:
+ add_0565_8_0565 = L1: 21.72 L2: 20.01 M: 14.96 (59.54%) HT: 12.03 VT: 11.81 R: 11.26 RT: 6.33 (37Kops/s)
+ add_8888_8_8888 = L1: 47.42 L2: 38.64 M: 15.90 (105.48%) HT: 13.34 VT: 13.03 R: 11.84 RT: 6.63 (38Kops/s)
+ add_8888_n_8888 = L1: 54.83 L2: 42.66 M: 17.36 (92.11%) HT: 15.20 VT: 14.82 R: 13.66 RT: 7.83 (41Kops/s)
+
+commit 52d20e692ebc605077448ab6f52fd257f83481b2
+Author: Nemanja
Lukic <nemanja.lukic@rt-rk.com>
+Date: Sun Oct 14 11:58:50 2012 +0200
+
+ MIPS: DSPr2: Added fast-paths for ADD operation: - add_n_8_8 - add_n_8_8888 - add_8_8_8
+
+ Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench results
+
+ Referent (before):
+ add_n_8_8 = L1: 41.37 L2: 37.83 M: 30.38 (60.45%) HT: 23.70 VT: 22.85 R: 21.51 RT: 10.32 (45Kops/s)
+ add_n_8_8888 = L1: 16.01 L2: 14.46 M: 11.64 (46.32%) HT: 5.50 VT: 5.18 R: 5.06 RT: 1.89 (18Kops/s)
+ add_8_8_8 = L1: 13.26 L2: 12.47 M: 11.16 (29.61%) HT: 8.09 VT: 8.04 R: 7.68 RT: 3.90 (29Kops/s)
+
+ Optimized:
+ add_n_8_8 = L1: 96.03 L2: 79.37 M: 51.89 (103.31%) HT: 32.59 VT: 31.29 R: 28.52 RT: 11.08 (46Kops/s)
+ add_n_8_8888 = L1: 53.61 L2: 46.92 M: 23.78 (94.70%) HT: 19.06 VT: 18.64 R: 17.30 RT: 9.15 (43Kops/s)

```
+          add_8_8_8    =  L1:  89.65
 L2:  66.82  M: 37.10 ( 98.48%)  HT: 22.10  VT: 21.74  R: 20.12  RT:  8.12 (  41Kops/s)
+
+commit 9df645dfb04b5a790faabe1e9a84fc37287d91b0
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Fri Oct 19 01:59:16 2012 +0300
+
+    Workaround for FTBFS with gcc 4.6 (http://gcc.gnu.org/PR54965)
+
+    GCC 4.6 has problems with force_inline, so just use normal inline instead.
+    Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=55630
+
+commit 31e5a0a393defb8e0534ab1bde29ab23fc04795d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Fri Oct 12 18:34:33 2012 -0400
+
+    pixman_composite_trapezoids(): don't clip to extents for some operators
+
+    pixman_composite_trapezoids() is supposed to composite across the
+    entire destination, but it actually only composites across the extent
+    of the trapezoids. For operators such as ADD or OVER this doesn't
+    matter since a zero source has no effect on the destination. But for
+    operators such as SRC
 or IN, it does matter.
+
+    So for such operators where a zero source has an effect, don't clip to
+    the trap extents.
+
+commit 65db2362e2793a527c2e831cceb81d8d6ad51b8f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Fri Oct 12 18:29:56 2012 -0400
+
+    pixman_composite_trapezoids(): Factor out extents computation
+
+    The computation of the extents rectangle is moved to its own
+    function.
+
+commit 2d9cb563b415e90cef898de03de7ed9c6f091db1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Fri Oct 12 18:07:29 2012 -0400
+
+    Add new pixman_image_create_bits_no_clear() API
+
+    When pixman_image_create_bits() function is given NULL for bits, it
+    will allocate a new buffer and initialize it to zero. However, in some
+    cases, only a small region of the image is actually used; in that case
+    it is wasteful to touch all of the memory.
+
```

+   The new pixman_image_create_bits_no_clear() works exactly like
+   _create_bits() except
 that it doesn't initialize any newly allocated
+   memory.
+
+commit af803be17b4ea5f53db9af57b6c6ef06db99ebbd
+Author: Benny Siegert <bsiegert@gmail.com>
+Date: Sun Oct 14 16:28:48 2012 +0200
+
+   configure.ac: PIXMAN_LINK_WITH_ENV fix
+
+   (fixes bug #52101)
+
+   On MirBSD, the compiler produces a (harmless) warning when the compiler
+   is called without the standard CFLAGS:
+
+   foo.c:0: note: someone does not honour COPTS correctly, passed 0 times
+
+   However, PIXMAN_LINK_WITH_ENV considers _any_ output on stderr as an
+   error, even if the exit status of the compiler is 0. Furthermore, it
+   resets CFLAGS and LDFLAGS at the start. On MirBSD, this will lead to a
+   warning in each test, making all such tests fail. In particular, the
+   pthread_setspecific test fails, thus pixman is compiled without thread
+   support. This leads to compile errors later on, or at least it did when
+   I tried this on pkgsrc. Re-adding the saved CFLAGS, LDFLAGS
 and LIBS
+   before the test makes it work.
+
+   The second hunk inverts the order of the pthread flag checks. On BSD
+   systems (this is true at least on OpenBSD and MirBSD), both -lpthread
+   and -pthread work but the latter is "preferred", whatever this means.
+
+commit 6e56098c0338ce74228187e4c96fed1a66cb0956
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Sep 29 02:29:22 2012 +0300
+
+   Add missing force_inline to in() function used for C fast paths
+
+commit 90bcafa495c1074b0ea1d35f99aa4837917494bd
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sun Jul 8 23:10:00 2012 +0300
+
+   MIPS: skip runtime detection for DSPr2 if -mdspr2 option is in CFLAGS
+
+   This provides a way to enable MIPS DSP ASE optimizations if running
+   under qemu-user (where /proc/cpuinfo contains information about the
+   host processor instead of the emulated one). Can be used for running
+   pixman test suite in qemu-user when having no

access to real MIPS
+ hardware.
+
+commit d5f2f39319fc358cccda60abe0bc927bd27131c1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Oct 11 04:04:04 2012 -0400
+
+ region: Remove overlap argument from pixman_op()
+
+ This is used to compute whether the regions in question overlap, but
+ nothing makes use of this information, so it can be removed.
+
+commit cb4f325ec0e844008075fe89ceb9f634ae41e7c9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Oct 11 04:07:00 2012 -0400
+
+ region: Formatting fix
+
+ The while part of a do/while loop was formatted as if it were a while
+ loop with an empty body. Probably some indent tool misinterpreted the
+ code at some point.
+
+commit 15b153d633fcfce886c30fee98599fddbf019ee8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Oct 7 17:58:32 2012 -0400
+
+ Only regard images as pixbufs if they have identity transformations
+
+ In order for a src/mask pair to be considered
a pixbuf, they have to
+ have identical transformations, but we don't check for that. Since the
+ only fast paths we have for pixbufs require identity transformations,
+ it sufficies to check that both source and mask are
+ untransformed.
+
+ This is also the reason that this bug can't be triggered by any test
+ code - if the source and mask had different transformations, we would
+ consider them a pixbuf, but then wouldn't take the fast path because
+ at least one of the transformations would be different from the
+ identity.
+
+commit 3d81d89c292058522cce91338028d9b4c4a23c24
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Oct 4 12:41:08 2012 -0400
+
+ Remove BUILT_SOURCES
+
+ pixman-combine32.[ch] were the only built sources, so BUILT_SOURCES

+ can now be removed.
+
+commit ec7aa11a6e4d0d02df9b339dfce9460dce954602
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 23 03:52:34 2012 -0400
+
+ Speed up pixman_expand_to_float()
+

+ GCC doesn't move the divisions out of the loop, so do it manually by
+ looking up the four (1.0f / mask) values in a table. Table lookups are
+ used under the theory that one L2 hit plus three L1 hits is preferable
+ to four floating point divisions.
+
+commit 8ccda2be30adf9dfcc3087b38a5062258324dcce
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Sep 21 18:36:16 2012 -0400
+
+ Don't auto-generate pixman-combine32.[ch] anymore
+
+ Since pixman-combine64.[ch] are not used anymore, there is no point
+ generating these files from pixman-combine.[ch].template.
+
+ Also get rid of dependency on perl in configure.ac.
+
+commit 4afd20cc71ba75190ebcead774b946157d0995a6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 18 14:39:29 2012 -0400
+
+ Remove 64 bit pipeline
+
+ The 64 bit pipeline is not used anymore, so it can now be removed.
+
+ Don't generate pixman-combine64.[ch] anymore.
Don't generate the
+ pixman-srgb.c anymore. Delete all the 64 bit fetchers in
+ pixman-access.c, all the 64 bit iterator functions in
+ pixman-bits-image.c and all the functions that expand from 8 to 16
+ bits.
+
+commit 5ff0bbd9721bb216a8332cbde18adc458af3cdec
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 18 14:11:07 2012 -0400
+
+ Switch the wide pipeline over to using floating point
+
+ In pixman-bits-image.c, remove bits_image_fetch_untransformed_64() and
+ add bits_image_fetch_untransformed_float(); change

+   dest_get_scanline_wide() to produce a floating point buffer,
+
+   In the gradients, change *_get_scanline_wide() to call
+   pixman_expand_to_float() instead of pixman_expand().
+
+   In pixman-general.c change the wide Bpp to 16 instead of 8, and
+   initialize the buffers to 0 to prevent NaNs from causing trouble.
+
+   In pixman-noop.c make the wide solid iterator generate floating point
+   pixels.
+
+
    In pixman-solid-fill.c, cache a floating point pixel, and make the
+   wide iterator generate floating point pixels.
+
+   Bug fix in bits_image_fetch_untransformed_repeat_normal
+
+commit e75bacc5f9196c3980ce331c7d53de5b7e92d699
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 18 13:22:15 2012 -0400
+
+   pixman-access.c: Add floating point accessor functions
+
+   Three new function pointer fields are added to bits_image_t:
+
+   fetch_scanline_float
+   fetch_pixel_float
+   store_scanline_float
+
+   similar to the existing 32 and 64 bit accessors. The fetcher_info_t
+   struct in pixman_access similarly gets a new get_scanline_float field.
+
+   For most formats, the new get_scanline_float field is set to a new
+   function fetch_scanline_generic_float() that first calls the 32 bit
+   fetcher uses the 32 bit scanline fetcher and then expands these pixels
+   to floating point.
+
+   For the 10 bpc formats,
 new floating point accessors are added that
+   use pixman_unorm_to_float() and pixman_float_to_unorm() to convert
+   back and forth.
+
+   The PIXMAN_a8r8g8b8_sRGB format is handled with a 256-entry table that
+   maps 8 bit sRGB channels to linear single precision floating point
+   numbers. The sRGB->linear direction can then be done with a simple
+   table lookup.
+
+   The other direction is currently done with 4096-entry table which

+ works fine for 16 bit integers, but not so great for floating
+ point. So instead this patch uses a binary search in the sRGB->linear
+ table. The existing 32 bit accessors for the sRGB format are also
+ converted to use this method.
+
+commit 23252393a2dcae4dc5a7d03727dd66cdd81286ba
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 18 13:02:31 2012 -0400
+
+ pixman-utils.c, pixman-private.h: Add floating point conversion routines
+
+ A new struct argb_t containing a floating point pixel is
added to
+ pixman-private.h and conversion routines are added to pixman-utils.c
+ to convert normalized integers to and from that struct.
+
+ New functions:
+
+ - pixman_expand_to_float()
+ Expands a buffer of integer pixels to a buffer of argb_t pixels
+
+ - pixman_contract_from_float()
+ Converts a buffer of argb_t pixels to a buffer integer pixels
+
+ - pixman_float_to_unorm()
+ Converts a floating point number to an unsigned normalized integer
+
+ - pixman_unorm_to_float()
+ Converts an unsigned normalized integer to a floating point number
+
+commit 4760599ff3008ab0f1e36a7d4d362362817fd930
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 9 17:56:53 2012 -0400
+
+ Add combiner test
+
+ This test runs the new floating point combiners on random input with
+ divide-by-zero exceptions turned on.
+
+ With the floating point combiners the only thing we guarantee is that
+
divide-by-zero exceptions are not generated, so change
+ enable_fp_exceptions() to only enable those, and rename accordingly.
+
+commit a5b459114e35c7a946362f1e5857e8a87a403ec3
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri May 14 00:42:04 2010 -0400
+

+ Add pixman-combine-float.c
+
+ This file contains floating point implementations of combiners for all
+ pixman operators. These combiners operate on buffers containing single
+ precision floating point pixels stored in (a, r, g, b) order.
+
+ The combiners are added to the pixman_implementation_t struct, but
+ nothing uses them yet.
+
+ This commit incorporates a number of bug fixes contributed by Andrea
+ Canciani.
+
+ Some notes:
+
+ - The combiners are making sure to never divide by zero regardless of
+ input, so an application could enable divide-by-zero exceptions and
+ pixman wouldn't generate any.
+
+ - The operators are implemented according
to the Render spec. Ie.,
+
+ - If the input pixels are between 0 and 1, then so is the output.
+
+ - The source and destination coefficients for the conjoint and
+ disjoint operators are clamped to [0, 1].
+
+ - The PDF operators are not described in the render spec, and the
+ implementation here doesn't do any clamping except in the final
+ conversion from floating point to destination format.
+
+ All of the above will need to be rethought if we add support for pixel
+ formats that can support negative and greater-than-one pixels. It is
+ in fact already the case in principle that convolution filters can
+ produce pixels with negative values, but since these go through the
+ broken "wide" path that narrows everything to 32 bits, these negative
+ values don't currently survive to the combiners.
+
+commit 7a9c2d586b2349b5e17966a96d7fe8c390abb75a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jun 2 00:15:54
2012 -0400
+
+ blitters-test: Prepare for floating point
+
+ Comment out some formats in blitters-test that are going to rely on
+ floating point in some upcoming patches.
+
+commit 600a06c81d3999bc6551c7e889726ed7b8bec84d

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jul 11 03:27:49 2012 -0400
+
+   glyph-test: Prepare for floating point
+
+   In preparation for an upcoming change of the wide pipe to use floating
+   point, comment out some formats in glyph-test that are going to be
+   using floating point and update the CRC32 value to match.
+
+commit 2e17b6dd4ee7c32684fb7ffc70d3ad3ebf7cb2ef
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 29 10:34:17 2012 -0400
+
+   Make pixman.h more const-correct
+
+   Add const to pointer arguments when the function doesn't change the
+   pointed-to data.
+
+   Also in add_glyphs() in pixman-glyph.c make 'white' in add_glyphs()
+   static and const.
+
+commit 183afcf1d95625a1f237ef349a1c8931d94d000d
+Author:
 Matt Turner <mattst88@gmail.com>
+Date: Sun Sep 30 11:59:23 2012 -0700
+
+   iwmmxt: Don't define dummy _mm_empty for >=gcc-4.8
+
+   Definition was not present in <4.8.
+
+   Bugzilla: https://bugs.freedesktop.org/show_bug.cgi?id=55451
+
+commit d4b72eb6ccc1f004efedbc6552ee22499350be4d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 29 18:15:54 2012 -0400
+
+   rotate-test: Call image_endian_swap() in make_image()
+
+   Otherwise the test fails on big-endian.
+
+   Tested-by: Matt Turner <mattst88@gmail.com>
+
+commit aff796d6cee4cb81f0352c2f7d0c994229bd5ca1
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Jun 25 22:36:52 2012 -0400
+
+   Add scaled nearest repeat fast paths
+

+   Before this patch it was often faster to scale and repeat
+   in two passes because each pass used a fast path vs.
+   the slow path that the single pass approach takes. This
+   makes it so that the
 single pass approach has competitive
+   performance.
+
+commit 05560828c495ed9226b43b30e1824447e3d8eff3
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Sep 21 16:34:24 2012 -0700
+
+   sse2: mark pack_565_2x128_128 as static force_inline
+
+commit de60e2e0e3eb6084f8f14b63f25b3cbfb012943f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 15 03:13:09 2012 -0400
+
+   Fix for infinite-loop test
+
+   The infinite loop detected by "affine-test 212944861" is caused by an
+   overflow in this expression:
+
+   max_x = pixman_fixed_to_int (vx + (width - 1) * unit_x) + 1;
+
+   where (width - 1) * unit_x doesn't fit in a signed int. This causes
+   max_x to be too small so that this:
+
+   src_width = 0
+
+   while (src_width < REPEAT_NORMAL_MIN_WIDTH && src_width <= max_x)
+   src_width += src_image->bits.width;
+
+   results in src_width being 0. Later on when src_width is used for
+   repeat calculations, we
 get the infinite loop.
+
+   By casting unit_x to int64_t, the expression no longer overflows and
+   affine-test 212944861 and infinite-loop no longer loop forever.
+
+commit aa311a4641b79eac39fe602b75d7bee3de9b1dce
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 13 19:31:29 2012 -0400
+
+   test: Add inifinite-loop test
+
+   This test demonstrates a bug where a certain transformation matrix can
+   result in an infinite loop. It was extracted as a standalone version
+   of "affine-test 212944861".

+
+   If given the option -nf, the test program will not call fail_after()
+   and therefore potentially run forever.
+
+commit d5c721768c9811ce22bc0cd50bdf1c7bccc264e0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 13 19:29:19 2012 -0400
+
+   affine-test: Print out the transformation matrix when verbose
+
+   Printing out the translation and scale is a bit misleading because the
+   actual transformation matrix can be modified
 in various other ways.
+
+   Instead simply print the whole transformation matrix that is actually
+   used.
+
+commit 292fce7a230dd253fff71bd1bb2fbf9b7996a892
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Fri Sep 14 09:31:26 2012 +0200
+
+   MIPS: DSPr2: Added OVER combiner and two new fast paths: - over_8888_8888 - over_8888_8888_8888
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results
+
+   Referent (before):
+   over_8888_8888 = L1: 19.61 L2: 17.10 M: 11.16 (59.20%) HT: 16.47 VT: 15.81 R: 14.82 RT:
8.90 (50Kops/s)
+   over_8888_8888_8888 = L1: 13.56 L2: 11.22 M: 7.46 (79.18%) HT: 6.24 VT: 6.20 R: 6.11 RT:
3.95 (29Kops/s)
+
+   Optimized:
+   over_8888_8888 = L1: 46.42 L2: 36.70 M: 16.69 (88.57%) HT: 17.11 VT: 16.55 R: 15.31 RT:
9.48 (52Kops/s)
+   over_8888_8888_8888 = L1: 26.06 L2: 22.53 M: 11.49 (121.91%) HT: 9.93
  VT: 9.62 R: 9.19 RT: 5.75 (36Kops/s)
+
+commit 28c9bd4866088a017a0cdf3f0fb47467b97bbc29
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Fri Sep 14 09:31:25 2012 +0200
+
+   MIPS: DSPr2: Added fast-paths for OVER operation: - over_0565_n_0565 - over_0565_8_0565
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+   lowlevel-blt-bench results

+
+ Referent (before):
+ over_0565_n_0565 = L1: 7.56 L2: 7.24 M: 6.16 (16.38%) HT: 4.01 VT: 3.84 R: 3.79 RT: 1.66 (18Kops/s)
+ over_0565_8_0565 = L1: 7.43 L2: 7.05 M: 5.98 (23.85%) HT: 5.27 VT: 5.23 R: 5.09 RT: 3.14 (28Kops/s)
+
+ Optimized:
+ over_0565_n_0565 = L1: 15.47 L2: 14.52 M: 12.30 (32.65%) HT: 10.76 VT: 10.57 R: 10.27 RT: 6.63 (46Kops/s)
+ over_0565_8_0565 = L1: 15.47 L2: 14.61 M: 11.78 (46.92%) HT: 10.00 VT: 9.84 R: 9.40 RT: 5.81 (43Kops/s)
+
+commit b660eb30b4e5f690d191b26a500a6ba224986b3a
+Author:
Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Fri Sep 14 09:31:24 2012 +0200
+
+ MIPS: DSPr2: Added fast-paths for OVER operation: - over_8888_n_0565 - over_8888_8_0565
+
+ Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench results
+
+ Referent (before):
+ over_8888_n_0565 = L1: 8.95 L2: 8.33 M: 6.95 (27.74%) HT: 4.27 VT: 4.07 R: 4.01 RT: 1.74 (19Kops/s)
+ over_8888_8_0565 = L1: 8.86 L2: 8.11 M: 6.72 (35.71%) HT: 5.68 VT: 5.62 R: 5.47 RT: 3.35 (30Kops/s)
+
+ Optimized:
+ over_8888_n_0565 = L1: 18.76 L2: 17.55 M: 13.11 (52.19%) HT: 11.35 VT: 11.10 R: 10.88 RT: 6.94 (47Kops/s)
+ over_8888_8_0565 = L1: 18.14 L2: 16.79 M: 12.10 (64.25%) HT: 10.24 VT: 9.98 R: 9.63 RT: 5.89 (43Kops/s)
+
+commit 37e3368e20cee42f1e1039bb112ed9a09d21156f
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Fri Sep
14 09:31:23 2012 +0200
+
+ MIPS: DSPr2: Added fast-paths for OVER operation: - over_8888_n_8888 - over_8888_8_8888
+
+ Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench results
+
+ Referent (before):

+ over_8888_n_8888 = L1: 9.92 L2: 11.27 M: 8.50 (45.23%) HT: 4.70 VT: 4.45 R: 4.49 RT: 1.85 (20Kops/s)
+ over_8888_8_8888 = L1: 12.54 L2: 10.86 M: 8.18 (54.36%) HT: 6.53 VT: 6.45 R: 6.41 RT: 3.83 (33Kops/s)
+
+ Optimized:
+ over_8888_n_8888 = L1: 28.02 L2: 24.92 M: 14.72 (78.15%) HT: 13.03 VT: 12.65 R: 12.00 RT: 7.49 (49Kops/s)
+ over_8888_8_8888 = L1: 26.92 L2: 23.93 M: 13.65 (90.58%) HT: 11.68 VT: 11.29 R: 10.56 RT: 6.37 (45Kops/s)
+
+commit f580c4c5b2a435ebe2751ce0dace6c42568557f8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Sep 21 16:52:16 2012 -0400
+
+ pixman-combine.c.template: Formatting clean-ups
+

+ Various formatting fixes, and removal of some obsolete comments about
+ strength reduction of operators.
+
+commit 58f8704664d1f8c812a85b929a50818f213a8438
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 20 21:43:24 2012 -0400
+
+ Fix bugs in pixman-image.c
+
+ In the checks for whether the transforms are rotation matrices "-1"
+ and "1" were used instead of the correct -pixman_fixed_1 and
+ pixman_fixed_1.
+
+ Fixes test suite failure for rotate-test.
+
+commit 550dfc5e7ecd5b099c1009d77c56cb91a62caeb1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 20 18:41:33 2012 -0400
+
+ Add rotate-test.c test program
+
+ This program exercises a bug in pixman-image.c where "-1" and "1" were
+ used instead of the correct "- pixman_fixed_1" and "pixman_fixed_1".
+
+ With the fast implementation enabled:
+
+ % ./rotate-test
+ rotate test failed! (checksum=35A01AAB, expected 03A24D51)
+

+ Without it:
+
+ % env PIXMAN_DISABLE=fast ./rotate-test
+ pixman: Disabled fast implementation
+ rotate test passed (checksum=03A24D51)
+
+ V2: The first version didn't have lcg_srand (testnum) in test_transform().
+
+commit 2ab77c97a5a3a816d6383bdc3b6c8bdceb0383b7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Sep 19 12:04:11 2012 -0400
+
+ Fix bugs in component alpha combiners for separable PDF operators
+
+ In general, the component alpha version of an operator is supposed to
+ do this:
+
+ - multiply source with mask in all channels
+ - multiply mask with source alpha in all channels
+ - compute the regular operator in all channels using the
+ mask value whenever source alpha is called for
+
+ The first two steps are usually accomplished with the function
+ combine_mask_ca(), but for operators where source alpha is not used,
+ such as SRC, ADD and OUT, the
simpler function
+ combine_mask_value_ca(), which doesn't compute the new mask values,
+ can be used.
+
+ However, the PDF blend modes generally *do* make use of source alpha,
+ so they can't use combine_mask_value_ca() as they do now. They have to
+ use combine_mask_ca().
+
+ This patch fixes this in combine_multiply_ca() and the CA combiners
+ generated by PDF_SEPARABLE_BLEND_MODE.
+
+commit c4b69e706e63e01fbc70e0026c2079007c89de14
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Sep 19 19:46:13 2012 -0400
+
+ Fix bug in fast_composite_scaled_nearest()
+
+ The fast_composite_scaled_nearest() function can be called when the
+ format is x8b8g8r8. In that case pixels fetched in fetch_nearest()
+ need to have their alpha channel set to 0xff.
+
+ Fixes test suite failure in scaling-test.

+
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+
+commit 35be7acb660228d4e350b5806c81e55606352e0d
+Author: Søren Sandmann Pedersen
 <ssp@redhat.com>
+Date: Wed Sep 19 19:26:49 2012 -0400
+
+   Add PIXMAN_x8b8g8r8 and PIXMAN_a8b8g8r8 formats to scaling-test
+
+   Update the CRC values based on what the general implementation
+   reports. This reveals a bug in the fast implementation:
+
+   % env PIXMAN_DISABLE="mmx sse2" ./test/scaling-test
+   pixman: Disabled mmx implementation
+   pixman: Disabled sse2 implementation
+   scaling test failed! (checksum=AA722B06, expected 03A23E0C)
+
+   vs.
+
+   % env PIXMAN_DISABLE="mmx sse2 fast" ./test/scaling-test
+   pixman: Disabled fast implementation
+   pixman: Disabled mmx implementation
+   pixman: Disabled sse2 implementation
+   scaling test passed (checksum=03A23E0C)
+
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+
+commit 9decb9a97975ae6bf25a42c0fd2eaa21b166c36d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 15 19:10:56 2012 -0400
+
+   implementation: Rename delegate
 to fallback
+
+   At this point the chain of implementations has nothing to do with the
+   delegation design pattern anymore, so rename the delegate pointer to
+   'fallback'.
+
+commit b96599ccf353e89f95aa106853fcf310203c5874
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 15 13:58:45 2012 -0400
+
+   _pixman_implementation_create(): Initialize implementation with memset()
+
+   All the function pointers are NULL by default now, so we can just zero
+   the struct. Also write the function a little more compactly.
+

+commit 9539a18832c278ca0f6f572d8765932be6c9ad65
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 15 13:53:17 2012 -0400
+
+   Rename _pixman_lookup_composite_function() to _pixman_implementation_lookup_composite()
+
+   And move it into pixman-implementation.c which is where it belongs
+   logically.
+
+commit ee6af72dadaf9eb049bfeb35dc9ff57c3902403a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat
 Sep 15 13:20:52 2012 -0400
+
+   Move delegation of src/dest iter init into pixman-implementation.c
+
+   Instead of relying on each implementation to delegate when an iterator
+   can't be initialized, change the type of iterator initializers to
+   boolean and make pixman-implementation.c do the delegation whenever an
+   iterator initializer returns FALSE.
+
+commit c710d0fae2a9dc7d20913e5e39a1bb53f7c942db
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 15 13:08:51 2012 -0400
+
+   Move fill delegation into pixman-implementation.c
+
+   As in the blt commit, do the delegation in pixman-implementation.c
+   whenever the implementation fill returns FALSE instead of relying on
+   each implementation to do it by itself.
+
+   With this change there is no longer any reason for the implementations
+   to have one fill function that delegates and one that actually blits,
+   so consolidate those in the NEON, DSPr2, SSE2, and MMX
+   implementations.
+
+commit
 534507ba3b00b9aaadc9f181c282b01e4e2fe415
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 15 13:03:10 2012 -0400
+
+   Move blt delegation into pixman-implementation.c
+
+   Rather than require each individual implementation to do the
+   delegation for blt, just do it in pixman-implementation.c whenever the
+   implementation blt returns FALSE.
+
+   With this change, there is no longer any reason for the

+   implementations to have one blt function that delegates and one that
+   actually blits, so consolidate those in the NEON, DSPr2, SSE2, and MMX
+   implementations.
+
+commit 7ef4436abbdb898dc656ebb5832ed5d6fd764bba
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Sep 15 12:48:42 2012 -0400
+
+   implementation: Write lookup_combiner() in a less convoluted way.
+
+   Instead of initializing an array on the stack, just use a simple
+   switch to select which set of combiners to look up in.
+
+commit 3124a51abb89475b8c5045bc96e04c5852694a16
+Author:
 Matt Turner <mattst88@gmail.com>
+Date: Sun Sep 16 00:25:38 2012 -0400
+
+   build: Remove useless DEP_CFLAGS/DEP_LIBS variables
+
+commit 46e4faf8ef34d49f15e1946d105289fb06365553
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Jun 21 06:07:07 2012 +0200
+
+   build: Improve win32 build system
+
+   Handle cross-directory dependencies using PHONY targets and clean up
+   some redundancies.
+
+commit c89efdd211cf7cd3dc69a4140045ceab6f445730
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Jul 17 16:14:20 2012 +0200
+
+   mmx: Fix x86 build on MSVC
+
+   The MSVC compiler is very strict about variable declarations after
+   statements.
+
+   Move all the declarations of each block before any statement in
+   the same block to fix multiple instances of:
+
+   pixman-mmx.c(xxxx) : error C2275: '__m64' : illegal use of this type
+   as an expression
+
+commit 1e3e569b04f45592ce2174e48df0fcb333ce0ad3
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 26 18:23:53 2012 -0400

+
+   test/utils.c: Use pow(), not powf() in sRGB conversion routines
+
+   These functions are operating on double precision values, so use pow()
+   instead of powf().
+
+commit 8577daba04e60c1b4c44ce01c6874a573952913a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 26 18:13:47 2012 -0400
+
+   pixel_checker: Move sRGB conversion into get_limits()
+
+   The sRGB conversion has to be done every time the limits are being
+   computed. Without this fix, pixel_checker_get_min/max() will produce
+   the wrong results when called from somewhere other than
+   pixel_checker_check().
+
+commit 62eb6e5e054da498e38da80ba8143f0a069b0c17
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 25 17:14:50 2012 -0400
+
+   Remove obsolete TODO file
+
+commit 384846b38cfb5e1895ae49c40adbf72a85b63d95
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 19
 13:45:21 2012 -0400
+
+   Remove pointless declaration of _pixman_image_get_scanline_generic_64()
+
+   This declaration used to be necessary when
+   _pixman_image_get_scanline_generic_64() referred to a structure that
+   itself referred back to _pixman_image_get_scanline_generic_64().
+
+commit 09cb1ae10b1976970233c934d27c36e0a4203e1c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jun 9 09:15:53 2012 -0400
+
+   demos: Add srgb_trap_test.c
+
+   This demo program composites a bunch of trapezoids side by side with
+   and without gamma aware compositing.
+
+commit 04e878c231ad3624c57e51a5fcdc55a177d4dc0f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jun 9 09:42:56 2012 -0400
+
+   Make show_image() cope with more formats

+
+   This makes show_image() deal with more formats than just a8r8g8b8, in
+   particular, a8r8g8b8_sRGB can now be handled.
+
+   Images that are passed to show_image with a format of a8r8g8b8_sRGB
+   are
 displayed without modification under the assumption that the
+   monitor is approximately sRGB.
+
+   Images with a format of a8r8g8b8 are also displayed without
+   modification since many other users of show_image() have been
+   generating essentially sRGB data with this format. Other formats are
+   also assumed to be gamma compressed; these are converted to a8r8g8b8
+   before being displayed.
+
+   With these changes, srgb-test.c doesn't need to do its own conversion
+   anymore.
+
+commit 8db9ec9814a3dcd8211ec60cd4fd3c9ae9d77924
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jul 31 15:01:16 2012 -0400
+
+   Define TIMER_BEGIN and TIMER_END even when timers are not enabled
+
+   This allows code that uses these macros to build when timers are
+   disabled.
+
+commit da5268cc19e03b24737dec3e2c51296156b869a8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 1 15:56:13 2012 -0400
+
+   Post-release version bump to 0.27.3
+
+commit
 e8ddef78b67a0699a990f3c785396d4b1955f972
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 1 15:22:57 2012 -0400
+
+   Pre-release version bump to 0.27.2
+
+commit c214ca51a00fdd0e773ace32076c3ed8a5d0d482
+Author: Sebastian Bauer <mail@sebastianbauer.info>
+Date: Tue Jul 31 07:30:32 2012 +0200
+
+   Use angle brackets form of including config.h
+
+commit 98617b3796d12c18d8306cca590160caa3c95454
+Author: Sebastian Bauer <mail@sebastianbauer.info>

+Date: Tue Jul 31 07:30:31 2012 +0200
+
+   Added HAVE_CONFIG_H check before including config.h
+
+commit 5b0563f39eb29e4ae431717696174da5e282c346
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 30 16:21:39 2012 -0400
+
+   glyph-test: Avoid setting solid images as alpha maps.
+
+   glyph-test would sometimes set a solid image as an alpha map, which is
+   not allowed. When this happened and the debug spew was enabled,
+   messages like this one would be generated:
+
+   *** BUG
 ***
+   In pixman_image_set_alpha_map: The expression
+   !alpha_map || alpha_map->type == BITS was false
+   Set a breakpoint on '_pixman_log_error' to debug
+
+   Fix this by not passing the ALLOW_SOLID flag to create_image() when
+   the resulting is to be used as an alpha map.
+
+commit 38fe7cd7be388aae6dff7d9b9979eb4ffa5fa175
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 30 16:10:05 2012 -0400
+
+   stress-test: Avoid overflows in clip rectangles
+
+   The rectangles in the clip region set in set_general_properties()
+   would sometimes overflow, which would lead to messages like these:
+
+   *** BUG ***
+   In pixman_region32_union_rect: Invalid rectangle passed
+   Set a breakpoint on '_pixman_log_error' to debug
+
+   when the micro version number of pixman is even.
+
+   Fix this by detecting the overflow and clamping such that the x2/y2
+   coordinates are less than INT32_MAX.
+
+commit
 24d83cbf3df06505fa4cf827271aa2985414cfdd
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 30 15:54:27 2012 -0400
+
+   Add make-srgb.pl to EXTRA_DIST
+

+   Otherwise make distcheck doesn't pass.
+
+commit 72ba0b955504ecdc69f4cbf96a677b82be18b0cb
+Author: Antti S. Lankila <alankila@bel.fi>
+Date: Sun Jul 29 22:14:34 2012 +0300
+
+   Add tests to validate new sRGB behavior
+
+   Composite checks random combinations of operations that now also have
+   sRGB sources, masks and destinations, and stress-test validates the
+   read/write primitives.
+
+commit a161a6ba2394aed68148304de83b8f2c185f4c32
+Author: Antti S. Lankila <alankila@bel.fi>
+Date: Sun Jul 29 21:56:18 2012 +0300
+
+   Add sRGB blending demo program
+
+   Simple sRGB color blender test can be used to determine if the sRGB processing
+   works as expected. It blends alpha ramps of purple and green together such that
+   at midpoint of image, 50 % blend of both is realized. At that
 point, sRGB-aware
+   processing yields a result close to #bbb rather than #888, which is the linear
+   light blending result.
+
+   The demo also contains the sample computation for sRGB premultiplied alpha.
+
+commit 7460457f80b1482338318f0ddcdf5311659fae7b
+Author: Antti S. Lankila <alankila@bel.fi>
+Date: Sun Jul 29 21:46:58 2012 +0300
+
+   Add support for sRGB surfaces
+
+   sRGB format is defined as a new format type, PIXMAN_TYPE_ARGB_SRGB. One form of
+   this type is provided, PIXMAN_a8r8g8b8_sRGB. Use of an sRGB format triggers
+   wide processing, and the pixel fetch/store functions handle the relevant
+   conversion between color spaces. Pixman itself is thought to compose in the
+   linearized sRGB color space.
+
+   sRGB conversion is tabularized. For sRGB to linear, we are using only 256
+   values because the current source format uses 8 bits per component precision.
+   For linear to sRGB, it turns out that only 4096 brightness levels are
 required
+   to generate all of the 256 sRGB color values, and therefore only 12 bits per
+   component are considered during store. As a special case, a no-op
+   sRGB->linear->sRGB conversion is constructed to be lossless by adjusting the
+   sRGB->linear conversion table where necessary.
+

+commit 1dcca0f7ae64e9a96f2feba85dd728c636744009
+Author: Antti S. Lankila <alankila@bel.fi>
+Date: Sat Jul 28 14:02:42 2012 +0300
+
+   Remove unnecessary dst initialization
+
+   The initialization work is already performed correctly in image_init().
+
+commit 56321eff65832791252c7c324930d14c44d4d5f7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 9 06:58:59 2012 -0400
+
+   Make pixman-mmx.c compile on x86-32 without optimization
+
+   When not optimizing, write _mm_shuffle_pi16() as a statement
+   expression with inline assembly. That way we avoid
+   __builtin_ia32_pshufw(), which is only available when compiling with
+   -msse, while still allowing the
 non-optimizing gcc to understand that
+   the second argument is a compile time constant.
+
+   Tested-by: Knut Petersen <knut_petersen@t-online.de>
+
+commit 0c81957e9b4f83944075167ae27a955bb253e267
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jun 28 15:53:14 2012 -0400
+
+   Cleanups and simplifications in x86 CPU feature detection
+
+   A new function pixman_cpuid() is added that runs the cpuid instruction
+   and returns the results. On GCC this function uses inline assembly; on
+   MSVC, the function calls the __cpuid intrinsic.
+
+   There is also a new function called have_cpuid() which detects whether
+   cpuid is available. On x86-64 and MSVC, it simply returns TRUE; on
+   x86-32 bit, it checks whether the 22nd bit of eflags can be
+   modified. On MSVC this does have the consequence that pixman will no
+   longer work CPUS without cpuid (ie., older than 486 and some 486
+   models).
+
+   These two functions together makes it
 possible to write a generic
+   detect_cpu_features() in plain C. This function is then used in a new
+   have_feature() function that checks whether a specific set of feature
+   bits is available.
+
+   Aside from the cleanups and simplifications, the main benefit from
+   this patch is that pixman now can do feature detection on x86-64, so

+ that newer instruction sets such as SSSE3 and SSE4.1 can be used. (And
+ apparently the assumption that x86-64 CPUs always have MMX and SSE2 is
+ no longer correct: Knight's Corner is x86-64, but doesn't have them).
+
+ V2: Rename the constants in the getisax() code, as pointed out by Alan
+ Coopersmith. Also reinstate the result variable and initialize
+ features to 0.
+
+ V3: Fixes for the fact that the upper 32 bits of a 64 bit register are
+ zeroed whenever the corresponding 32 bit register is written to.
+
+ V4: Fixes for the fact that in 32 bit mode, when gcc is not optimizing
+ there were
 not enough registers available. The new code uses the "a",
+ "b", "c", and "d" constraints instead, and has two separate versions
+ for 32 and 64 bit modes.
+
+commit 4d641c3803d508ba1eb40e61257949422ae2b90d
+Author: Sebastian Bauer <mail@sebastianbauer.info>
+Date: Sun Jul 8 18:48:45 2012 -0400
+
+ Changed the style of two function headers
+
+ Declare functions *_inverse() and *_contains_rectangle() in the same
+ way as the other functions are declared. This doesn't imply any semantic
+ changes. It's just a unification of coding styles.
+
+commit 86ad09b548b45a5a5074d9d83970d5e7e7f89d31
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Jul 2 20:54:20 2012 +0200
+
+ MIPS: DSPr2: Added more bilinear fast paths (without mask)
+
+ Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench -b
+
+ Referent (before):
+ src_8888_8888 = L1: 8.18 L2: 7.79 M: 6.32 (33.51%) HT: 5.78 VT: 5.70 R: 5.61
  RT: 3.79 (29Kops/s)
+ src_8888_0565 = L1: 6.90 L2: 7.14 M: 6.47 (25.75%) HT: 5.54 VT: 5.51 R: 5.46 RT: 3.53 (
28Kops/s)
+ src_0565_x888 = L1: 3.76 L2: 3.71 M: 3.37 (13.41%) HT: 3.26 VT: 3.22 R: 3.20 RT: 2.58 (
23Kops/s)
+ src_0565_0565 = L1: 3.59 L2: 3.56 M: 3.47 (9.19%) HT: 3.19 VT: 3.18 R: 3.16 RT: 2.46 (
22Kops/s)
+ over_8888_8888 = L1: 5.99 L2: 5.66 M: 4.95 (26.28%) HT: 4.40 VT: 4.38 R: 4.31 RT: 3.02 (
26Kops/s)

+ add_8888_8888 = L1: 6.84 L2: 6.39 M: 5.48 (29.09%) HT: 4.80 VT: 4.79 R: 4.70 RT: 3.20 (27Kops/s)
+
+ Optimized:
+ src_8888_8888 = L1: 18.27 L2: 16.69 M: 12.87 (68.25%) HT: 11.80 VT: 11.61 R: 10.60 RT: 7.05 (41Kops/s)
+ src_8888_0565 = L1: 15.18 L2: 14.10 M: 11.75 (46.71%) HT: 10.64 VT: 10.50 R: 10.03 RT: 7.15 (41Kops/s)
+ src_0565_x888 = L1: 10.45 L2: 9.96 M: 9.23 (36.72%) HT: 8.39 VT: 8.29 R: 8.02 RT: 5.75 (37Kops/s)
+ src_0565_0565 = L1: 9.37 L2: 8.98 M: 8.50 (22.53%) HT: 7.71 VT: 7.66 R: 7.52 RT: 5.59 (37Kops/s)
+ over_8888_8888 = L1: 12.21 L2: 11.01 M: 8.56 (45.36%) HT: 7.71 VT: 7.64 R: 7.43 RT: 5.51 (36Kops/s)
+ add_8888_8888 = L1: 17.72 L2: 15.16 M: 10.78 (57.13%) HT: 9.46 VT: 9.30 R: 9.00 RT: 6.03 (38Kops/s)
+
+commit 707a8be11280c4d395e662e869d4a98d75bb5571
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Mon Jul 2 20:54:19 2012 +0200
+
+ MIPS: DSPr2: Added several bilinear fast paths with a8 mask
+
+ Performance numbers before/after on MIPS-74kc @ 1GHz:
+
+ lowlevel-blt-bench -b
+
+ Referent (before):
+
+ src_8888_8_8888 = L1: 6.37 L2: 6.08 M: 5.46 (32.57%) HT: 4.64 VT: 4.61 R: 4.52 RT: 2.85 (23Kops/s)
+ src_8888_8_0565 = L1: 5.89 L2: 5.66 M: 5.11 (23.71%) HT: 4.36 VT: 4.34 R: 4.26 RT: 2.71 (22Kops/s)
+ src_0565_8_x888 = L1: 3.32 L2: 3.27 M: 3.17 (14.71%) HT: 2.86 VT: 2.84 R: 2.81 RT: 2.07 (19Kops/s)
+ src_0565_8_0565 = L1: 3.19 L2: 3.15 M: 3.05 (10.11%) HT: 2.75 VT: 2.74 R: 2.71 RT: 2.00 (18Kops/s)
+ over_8888_8_8888 = L1: 4.99 L2: 4.71 M: 4.11 (27.22%) HT: 3.59 VT: 3.58 R: 3.50 RT: 2.36 (21Kops/s)
+ add_8888_8_8888 = L1: 5.60 L2: 5.26 M: 4.52 (29.95%) HT: 3.92 VT: 3.89 R: 3.80 RT: 2.49 (21Kops/s)
+
+ Optimized:
+
+ src_8888_8_8888 = L1: 13.19 L2: 12.13 M: 9.75 (58.22%) HT: 8.60 VT: 8.44 R: 7.90 RT: 5.06 (33Kops/s)
+ src_8888_8_0565 = L1: 11.64 L2: 10.81 M: 9.18 (42.63%) HT: 8.04 VT: 7.90 R: 7.57 RT: 5.02 (32Kops/s)

+ src_0565_8_x888 = L1: 8.34 L2: 7.95 M: 7.29 (33.85%) HT: 6.55 VT: 6.48 R: 6.25 RT: 4.35 (30Kops/s)
+ src_0565_8_0565 = L1: 7.71 L2: 7.35 M: 6.90 (22.90%) HT: 6.14 VT: 6.10 R: 5.94 RT: 4.07 (29Kops/s)
+ over_8888_8_8888 = L1: 9.73 L2: 8.99 M: 7.15 (47.41%) HT: 6.40 VT: 6.30 R: 6.11 RT: 4.28 (30Kops/s)
+ add_8888_8_8888 = L1: 13.01 L2: 11.72 M: 8.70 (57.68%) HT: 7.59 VT: 7.46 R: 7.20 RT: 4.74 (32Kops/s)
+
+commit 6aac8e85701be418e1ce13debc1bc8a30687f66b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jun 27 22:11:29 2012 -0400
+
+ Simplify CPU detection on PPC.
+
+ Get rid of the initialized and have_vmx static variables in
+ pixman-ppc.c There is no point to them since CPU detection only
+ happens once per process.
+
+ On Linux, just read /proc/self/auxv instead of generating the filename
+ with getpid() and don't bother with the stack buffer. Instead just
+ read the aux entries one by one.
+
+commit 4b78d785373c1d02abe695267379674776b3da3d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jun 27 22:05:18 2012 -0400
+
+ Simplifications to ARM CPU detection
+

+ Organize pixman-arm.c such that each operating system/compiler exports
+ a detect_cpu_features() function that returns a bitmask with the
+ various features that we are interested in. A new function
+ have_feature() then calls this function, caches the result, and return
+ whether the given feature is available.
+
+ The result is that all the pixman_have_arm_<feature> functions become
+ redundant and can be deleted.
+
+commit 8b795a9c17aa25328b9c76b949d319bb578d5f1e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jun 27 14:14:54 2012 -0400
+
+ Simplify MIPS CPU detection
+
+ There is no reason to have pixman_have_<feature> functions when all
+ they do is call pixman_have_mips_feature().
+

+   Instead rename pixman_have_mips_feature() to have_feature() and call
+   it directly from _pixman_mips_get_implementations(). Also on
+   non-Linux, just make have_feature() return FALSE.
+
+commit 16502dd3ae3bf1d49faf1de533bd58013e168e64
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jun 27 23:04:24 2012 -0400
+
+   Move the remaining bits of pixman-cpu into pixman-implementation.c
+
+commit 5813bb96aec1c48636db621558534561fef67b68
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jun 26 17:26:34 2012 -0400
+
+   Move MIPS specific CPU detection to its own file, pixman-mips.c
+
+commit 4ac0a1d60fccf4f9a782747ce61fd15825eddb5a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jun 26 17:30:22 2012 -0400
+
+   Move PowerPC specific CPU detection to its own file pixman-ppc.c
+
+commit 8590415f0e54520a176ff0fb53deb82be16873dd
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jun 26 17:02:24 2012 -0400
+
+   Move ARM specific CPU detection to a new file pixman-arm.c
+
+   Similar to the x86 commit, this moves the ARM specific CPU detection
+   to its own file which exports a pixman_arm_get_implementations()
+   function that is supposed to be a noop on non-ARM.
+
+commit
 39ac18570a70674897aa7085406d9a4f6069feb4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jun 26 12:44:32 2012 -0400
+
+   Move x86 specific CPU detection to a new file pixman-x86.c
+
+   Extract the x86 specific parts of pixman-cpu.c and put them in their
+   own file called pixman-x86.c which exports one function
+   pixman_x86_get_implementations() that creates the MMX and SSE2
+   implementations. This file is supposed to be compiled on all
+   architectures, but pixman_x86_get_implementations() should be a noop
+   on non-x86.
+
+commit 1a3b7614a9808f8af15204d0751a6820bf67059c

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jun 26 18:07:39 2012 -0400
+
+   pixman-cpu.c: Rename disabled to _pixman_disabled() and export it
+
+commit d4aa82fb9148862904bb7ca33655ce8d571643b0
+Author: Sebastian Bauer <mail@sebastianbauer.info>
+Date: Tue Jul 3 05:55:14 2012 -0400
+
+   Qualify the static variables in pixman_f_transform_invert()
 with the const keyword.
+
+   Their contents is not overwritten.
+
+commit f9c91ee2f27eaea68d8c3a130bf7d4bc0c860834
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jul 1 16:59:53 2012 -0400
+
+   Use a compile-time constant for the "K" constraint in the MMX detection.
+
+   When compiling with -O0, gcc doesn't understand that in
+
+   signed char x = 0;
+
+   ...
+
+   asm ("...",
+   : "K" (x));
+
+   x is constant. Fix this by using an immediate constant instead of a
+   variable.
+
+commit cd7ecf548a9e8115226bf0fec174f3abc54becb5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jul 1 06:54:06 2012 -0400
+
+   In fast_composite_tiled_repeat() don't clone images with a palette
+
+   In fast_composite_tiled_repeat() if the source image is less than a
+   certain constant width, a clone is created which is then
+   pre-repeated. However, the source image's palette, if it has one, is
+   not cloned,
 so for indexed images, the pre-repeating would crash.
+
+   Fix this by not doing any pre-repeating for images with a palette set.
+
+commit 7b20ad39f778d765566d3f2c5f7c50964100efc1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>

+Date: Sun Jul 1 06:53:18 2012 -0400
+
+   test: Make stress-test more likely to actually composite something
+
+   stress-test current almost never composites anything because the clip
+   rectangles and transformations are such that either
+   _pixman_compute_composite_region32() or analyze_extent() will return
+   FALSE.
+
+   Fix this by:
+
+   - making log_rand() return smaller numbers so that the clip rectangles
+   are more likely to be within the destination image
+
+   - adding rand_x() and rand_y() functions that pick positions within an
+   image and using them for positioning alpha maps and source/mask
+   positions.
+
+   - making it less likely that clip regions are used in general
+
+
 These changes make the test take longer, so speed it up a little by
+   making most images smaller and by reducing the maximum convolution
+   filter from 17x19 to 3x4.
+
+   With these changes, stress-test reveals a crash in iteration 0xd39
+   where fast_composite_tiled_repeat() creates an indexed image without a
+   palette.
+
+commit 4cdf8e9f3aca1925aeca25debb9268877ba3cd3d
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun Jul 1 16:35:46 2012 -0400
+
+   sse2: add missing ABGR entires for bilinear src_8888_8888
+
+commit ef99f9e97260cc55678385a6d691c195f57bd6b1
+Author: Matt Turner <mattst88@gmail.com>
+Date: Mon May 21 05:56:58 2012 -0400
+
+   loongson: optimize _mm_set_pi* functions with shuffle instructions
+
+commit 9aa8e3a26071739d160496ef9f6126f296c500eb
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Jun 27 13:00:36 2012 -0400
+
+   mmx: optimize bilinear function when using 7-bit precision
+
+   Loongson:

```
+   image           firefox-fishtank
 1037.738 1040.218   0.19%    3/3
+   image           firefox-fishtank 1056.611 1057.581   0.20%    3/3
+
+   ARM/iwMMXt:
+   image           firefox-fishtank 1487.282 1492.640   0.17%    3/3
+   image           firefox-fishtank 1363.913 1364.366   0.11%    3/3
+
+commit 1ad6ae6ee8a350f6fe4f30ba928aacf44d04f86e
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Sun May 20 20:51:08 2012 -0400
+
+   mmx: add scaled bilinear over_8888_8_8888
+
+   Loongson:
+   image           firefox-fishtank 1665.163 1670.370   0.17%    3/3
+   image           firefox-fishtank 1037.738 1040.218   0.19%    3/3
+
+   ARM/iwMMXt:
+   image           firefox-fishtank 2042.723 2045.308   0.10%    3/3
+   image           firefox-fishtank 1487.282 1492.640   0.17%    3/3
+
+commit c43de364cbcd195f7d1d6881a6109cbb3d6b73b8
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Wed Jun 27 12:57:45 2012 -0400
+
+   mmx: add scaled bilinear over_8888_8888
+
+   Loongson:
+
  image        firefox-planet-gnome  157.012  158.087   0.30%    6/6
+   image        firefox-planet-gnome  156.617  157.109   0.15%    5/6
+
+   ARM/iwMMXt:
+   image        firefox-planet-gnome  148.086  149.339   0.76%    6/6
+   image        firefox-planet-gnome  144.939  146.123   0.61%    6/6
+
+commit 9209cd746b7a81d0536df6dadd6a0b0b983291cb
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Tue Jun 19 00:30:51 2012 -0400
+
+   mmx: add scaled bilinear src_8888_8888
+
+   Loongson:
+   image        firefox-planet-gnome  170.025  170.229   0.09%    3/4
+   image        firefox-planet-gnome  157.012  158.087   0.30%    6/6
+
+   ARM/iwMMXt:
```

```
+    image        firefox-planet-gnome  164.192  164.875   0.34%    3/4
+    image        firefox-planet-gnome  148.086  149.339   0.76%    6/6
+
+commit 51f27d7364d66e47d882ee531b6655368159231a
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Thu Jun 28 12:17:16 2012 -0400
+
+    mmx: Use expand_alpha instead of
 mask/shift
+
+commit b0855f095aba8e0c98d1fd1863b278fc72a4dd2c
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Sun Jul 1 23:00:34 2012 +0300
+
+    Change default bilinear interpolation precision to 7 bits
+
+    This improves performance for the current SSE2 code. Further
+    reduction to 4 bits may be considered later if it proves
+    to allow additional speedup.
+
+commit c430b1dba7bfea0031227dd4b976da3dd7c4ac02
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Tue Jun 26 01:47:18 2012 +0300
+
+    sse2: _mm_madd_epi16 for faster bilinear scaling with 7-bit precision
+
+    Reducing interpolation precision allows the use of PMADDWD instruction.
+    This makes bilinear scaling much faster (on Intel Core i7):
+
+    8-bit: image          firefox-fishtank   57.584   58.349   0.74%    3/3
+    7-bit: image          firefox-fishtank   51.139   51.229   0.30%    3/3
+
+    8-bit: src_8888_8888 =  L1: 228.71  L2: 226.52  M:224.82 (
 14.95%)  HT:183.22  VT:154.02  R:171.72  RT:109.36
+    7-bit: src_8888_8888 =  L1: 320.45  L2: 317.43  M:314.38 ( 20.77%)  HT:215.13  VT:177.35  R:204.46
RT:121.93
+
+commit ccd31896bc2f1f323b3be9e8b1447cab892ee62d
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Tue Jun 26 01:06:10 2012 +0300
+
+    Bilinear interpolation precision is now configurable at compile time
+
+    Macro BILINEAR_INTERPOLATION_BITS in pixman-private.h selects
+    the number of fractional bits used for bilinear interpolation.
+
+    scaling-test and affine-test have checksums for 4-bit, 7-bit
+    and 8-bit configurations.
```

+
+commit ad9f1d020188fe90ae742041195baebdfbe6fe27
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Jun 29 14:24:30 2012 -0400
+
+   Fix distcheck due to custom iwMMXt rules
+
+commit ff5d041b88c667141b891909acd3085c3ed54994
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Jun 25 07:24:27 2012 +0300
+
+   sse2: faster bilinear scaling
 (use _mm_loadl_epi64)
+
+   Using _mm_loadl_epi64() to load two pixels at once (pairs of top
+   and bottom pixels) is faster than loading each pixel separately
+   and combining them with _mm_set_epi32().
+
+   === cairo-perf-trace ===
+
+   before: image   firefox-fishtank   66.912   66.931   0.13%   3/3
+   after: image   firefox-fishtank   57.584   58.349   0.74%   3/3
+
+   === lowlevel-blt-bench ===
+
+   before: src_8888_8888 = L1: 181.10 L2: 179.14 M:178.08 (11.02%) HT:153.22 VT:133.45 R:142.24 RT:
95.32
+   after: src_8888_8888 = L1: 228.68 L2: 225.75 M:223.98 (14.23%) HT:185.32 VT:155.06 R:162.73
RT:102.52
+
+   This improvement was suggested by Matt Turner on irc.
+
+commit fc162bad561a516f648daf07e9d22d427fe60e74
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Mon Jun 25 07:11:59 2012 +0300
+
+   test: support nearest/bilinear scaling in lowlevel-blt-bench
+
+   Scale factor is
 selected to be nearly 1x, so that the MPix/s results
+   can be directly compared with the results of non-scaled compositing
+   operations.
+
+commit 387e9bcddb90bd2c7d1dfb81c073196f9f81042d
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date: Sat Jun 23 04:08:28 2012 +0300
+
+   test: Fix for strict aliasing issue in 'get_random_seed'

+
+   Gets rid of gcc warning when compiled with -fstrict-aliasing option in CFLAGS
+
+commit 4cbeb0aedccde5d2eb87daec08040a8bf161f6d7
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Jun 20 17:13:33 2012 +0200
+
+   build: Fix compilation on win32
+
+   When compiling using the win32 build system, config.h is not
+   available nor needed.
+
+   Fixes:
+
+   pixman-glyph.c(26) : fatal error C1083: Cannot open include file:
+   'config.h': No such file or directory
+
+commit 21077e1b83912b5e895b160bbbcd9b4664191506
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed May 2 23:13:43 2012 -0400
+
+   sse2:
 add src_x888_0565
+
+   Port of 2ddd1c498b to SSE2.
+
+   Uses the pmadd technique described in
+   http://software.intel.com/sites/landingpage/legacy/mmx/MMX_App_24-16_Bit_Conversion.pdf
+
+   Works around lack of packusdw instruction by first sign extending the
+   values.
+
+   fast: src_8888_0565 = L1: 681.40 L2: 689.20 M: 644.76 (25.51%) HT:404.42 VT:288.04 R:306.07
RT:150.80 (1619Kops/s)
+   mmx: src_8888_0565 = L1:2056.03 L2:1985.44 M:1574.91 (61.87%) HT:533.10 VT:376.35 R:416.10
RT:178.79 (1833Kops/s)
+   sse2: src_8888_0565 = L1:3793.42 L2:3653.44 M:1878.83 (73.94%) HT:535.03 VT:407.96 R:421.46
RT:163.31 (1727Kops/s)
+
+   and for reference, using packusdw
+   sse4: src_8888_0565 = L1:4396.18 L2:4229.25 M:1904.04 (75.18%) HT:559.79 VT:427.96 R:440.06
RT:165.71 (1744Kops/s)
+
+   Notice that MMX is faster in the RT case because it can operate on
+   8-bytes instead of the current 16-bytes for SSE2.
+
+commit

```
 7db07cb731e3689328d9ecbdafffe99d7d38388e
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Wed Jun 13 13:18:49 2012 -0400
+
+    sse2: enable over_n_0565 for b5g6r5
+
+    Same as b950bb12 for MMX.
+
+commit 45946c5fa1760ad185ae20e8797635b0a256ea08
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Wed Jun 13 16:37:48 2012 -0400
+
+    .gitignore: add test/glyph-test
+
+commit eadb442b5c825679016de7e7acb837e58f92bfc4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Tue Jun 12 22:04:29 2012 -0400
+
+    test: Add missing break in stress-test.c
+
+    Found by coverity:
+
+    https://bugzilla.redhat.com/show_bug.cgi?id=756069
+
+commit 492dac7593075e622cfeddc73298df29d50b76bc
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Wed Jun 6 23:54:20 2012 +0300
+
+    test: fix bisecting issue in fuzzer-find-diff.pl
+
+    Before bisecting to find the exact test which has failed, we
+    first need to make sure that the first test is fine (the first
+
   test is "good" and the whole range is "bad"). Otherwise
+    test 2 gets incorrectly flagged as problematic in the case
+    if we already got a failure on test 1 right from the start.
+
+commit 40a0d10eeaedb879bbffe41f0537e8468c563df7
+Author: Siarhei Siamashka <siarhei.siamashka@gmail.com>
+Date:   Wed Jun 6 22:21:32 2012 +0300
+
+    test: OpenMP 2.5 requires signed loop iteration variables
+
+    Unsigned loop variables are only supported since version 3.0
+    of OpenMP specification. Changing loop variables to use int32_t
+    type fixes pixman build problems with path64 compiler.
+
+commit 619a60d201bfdfe2f15fca75f6e686fc7c275b5b
```

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jun 11 19:13:45 2012 -0400
+
+   test: Make glyph test pass on big endian
+
+   The destination buffer was initialized with random uint32_t values, so
+   it started out different on big endian vs. little endian. Fix that by
+   initializing the buffer with random uint8_t values
 instead.
+
+commit f80e7ad3cbf46218bb3b4247e7b9e5d448670ad8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jan 8 13:21:11 2012 -0500
+
+   bits-image: Turn all the fetchers into iterator getters
+
+   Instead of caching these fetchers in the image structure, and then
+   have the iterator getter call them from there, simply change them to
+   be iterator getters themselves.
+
+   This avoids an extra indirect function call and lets us get rid of the
+   get_scanline_32/64 fields in pixman_image_t.
+
+commit fd175f9d02f36b1e91973e4264519228547f5dc7
+Author: Antti S. Lankila <alankila@bel.fi>
+Date: Sun Jun 10 19:22:56 2012 +0300
+
+   Faster unorm_to_unorm for wide processing.
+
+   Optimizing the unorm_to_unorm functions allows a speedup from:
+
+   src_8888_2x10 = L1: 62.08 L2: 60.73 M: 59.61 (4.30%) HT: 46.81
+   VT: 42.17 R: 43.18 RT: 26.01 (325Kops/s)
+
+   to:
+
+   src_8888_2x10 = L1: 76.94 L2: 78.43 M: 75.87
 (5.59%) HT: 56.73
+   VT: 52.39 R: 53.00 RT: 29.29 (363Kops/s)
+
+   on a i7 Q720 -based laptop.
+
+   The key of the patch is the observation that unorm_to_unorm's work can
+   more easily be done with a simple multiplication and shift, when the
+   function is applied repeatedly and the parameters are not compile-time
+   constants. For instance, converting from 0xfe to 0xfefe (expanding
+   from 8 bits to 16 bits) can be done by calculating
+

+   c = c * 0x101
+
+   However, sometimes the result is not a neat replication of all the
+   bits. For instance, going from 10 bits to 16 bits can be done by
+   calculating
+
+   c = c * 0x401UL >> 4
+
+   where the intermediate result is 20 bit wide repetition of the 10-bit
+   pattern followed by shifting off the unnecessary lowest bits.
+
+   The patch has the algorithm to calculate the factor and the shift, and
+   converts the code to use it.
+
+commit 367b78fd5c57ee05298eb11370b68d01613961e5
+Author:
 Matt Turner <mattst88@gmail.com>
+Date: Wed May 30 16:44:04 2012 -0400
+
+   configure.ac: add iwmmxt2 configure flag
+
+   The flag allows the user to select whether pixman-mmx.c is compiled with
+   -march=iwmmxt or -march=iwmmxt2.
+
+   gcc has scheduling support for the Marvell CPU in the XO 1.75 when
+   building with -march=iwmmxt2.
+
+commit 31a6563ec5167d6b15fdb8c158a71ab4f97015ab
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed May 30 16:26:32 2012 -0400
+
+   autotools: use custom build rule to build iwMMXt code
+
+   gcc has no sane way of enabling iwmmxt code generation, like -msse for
+   SSE, so you have to use -march=iwmmxt{,2}. User CFLAGS are placed after
+   -march=iwmmxt and override the march value, so we have to use a custom
+   build rule to order the CFLAGS such that pixman-mmx.c will be built with
+   the necessary CFLAGS.
+
+commit 706bf8264cb48aac36e36ff5e23f0ad8a47ff73c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Tue May 3 07:25:50 2011 -0400
+
+   Speed up _pixman_image_get_solid() in common cases
+
+   Make _pixman_image_get_solid() faster by special-casing the common
+   cases where the image is SOLID or a repeating a8r8g8b8 image.

```
+
+    This optimization together with the previous one results in a small
+    but reproducable performance improvement on the xfce4-terminal-a1
+    cairo trace:
+
+    [ # ]  backend                test   min(s) median(s) stddev. count
+    Before:
+    [  0]    image          xfce4-terminal-a1    1.221    1.239   1.21%  100/100
+    After:
+    [  0]    image          xfce4-terminal-a1    1.170    1.199   1.26%  100/100
+
+    Either optimization by itself is difficult to separate from noise.
+
+commit 934c9d8546b71ddea91ac16b0928101903e2608e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Mon May 28 02:36:22 2012 -0400
+
+    Speed up _pixman_composite_glyphs_no_mask()
+
+    Bypass much of the
 overhead of pixman_image_composite32() by only
+    computing the composite region once instead of once per glyph, and by
+    only looking up the composite function whenever the glyph format or
+    flags change.
+
+    As part of this, the pixman_compute_composite_region32() was renamed
+    to _pixman_compute_composite_region32() and exported in
+    pixman-private.h.
+
+    I couldn't find a trace that would reliably demonstrate that this is
+    actually an improvement by itself (since _pixman_composite_glyphs_no_mask()
+    is called so rarely), but together with the following optimization for
+    solid sources, there is a small but reliable improvement to the
+    xfce4-a1-terminal cairo trace.
+
+commit a162189dc0fa9978a3b5b6dd24f9bc12995805ed
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Mon May 28 01:22:26 2012 -0400
+
+    Speed up pixman_composite_glyphs()
+
+    When adding glyphs to the mask, bypass most of the overhead of
+    pixman_image_composite32()
 by:
+
+    - Only looking up the composite function when the glyph changes either
+      format or flags.
+
```

```
+    - Only using a white source when the glyph format is different from
+      the mask format.
+
+    - Simply intersecting the glyph rectangle with the destination
+      rectangle instead of doing the full _pixman_composite_region32().
+
+    Performance results:
+
+    [ # ]  backend                    test   min(s) median(s) stddev. count
+    Before:
+    [  0]    image          firefox-talos-gfx    6.570    6.577   0.13%    8/10
+    After:
+    [  0]    image          firefox-talos-gfx    4.272    4.289   0.28%   10/10
+
+    V2: Changes to deal with white sources
+
+commit d9710442b4b2294e1ccd1594c54ca8a4feda2ac5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Sun May 27 18:23:20 2012 -0400
+
+    test: Add glyph-test
+
+    This test tests the new glyph cache and compositing API. Much of this
+    test is intending
 to making sure that clipping and alpha map handling
+    survive any optimizations that may be added to the glyph compositing.
+
+    V2: Evaluating lcg_rand_n() multiple times in an argument list lead
+        to undefined behavior.
+
+commit dc9237472789b0b45393f6f7eeafa057a86280c4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Mon May 28 16:14:12 2012 -0400
+
+    Add support for alpha maps to compute_crc32_for_image().
+
+    When a destination image I has an alpha map A, the following rules apply:
+
+      - If I has an alpha channel itself, the content of that channel is
+        undefined
+
+      - If A has RGB channels, the content of those channels is
+        undefined.
+
+    Hence in order to compute the CRC32 for such an image, we have to mask
+    off the alpha channel of the image, and the RGB channels of the alpha
+    map.
+
```

```
+    V2: Shifting by 32 is undefined in C
+
+commit 43e029d525c191a771e5b964fccff09b6d341bb2
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Sun May 27 13:38:14 2012 -0400
+
+    Move CRC32 computation from blitters-test.c into utils.c
+
+    This way it can be used in other tests.
+
+commit fce31a5ef8c915ee6b7aee4c6b57bee245185c1f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Tue May 29 04:14:38 2012 -0400
+
+    Add pixman_glyph_cache_t API
+
+    This new API allows entire glyph strings to be composited in one go
+    which reduces overhead compared to multiple calls to
+    pixman_image_composite32().
+
+    The pixman_glyph_cache_t is a hash table that maps two keys (a "font"
+    and a "glyph" key, but they are just keys; there is no distinction
+    between them as far as pixman is concerned) to a glyph. Glyphs in the
+    cache can be composited through two new entry points
+    pixman_glyph_cache_composite_glyphs() and
+    pixman_glyph_cache_composite_glyphs_no_mask().
+
+    A glyph cache may only be inserted into when it is "frozen",
 which is
+    achieved by calling pixman_glyph_cache_freeze(). When
+    pixman_glyph_cache_thaw() is later called, if the cache has become too
+    crowded, some glyphs (currently the least-recently-used) will
+    automatically be evicted. This means that a user must ensure that all
+    the required glyphs are present in the cache before compositing a
+    string. The intended way to use the cache is like this:
+
+          pixman_glyph_t glyphs[MAX_GLYPHS];
+
+          pixman_glyph_cache_freeze (cache);
+
+          for (i = 0; i < n_glyphs; ++i)
+          {
+             const void *g;
+
+             if (!(g = pixman_glyph_cache_lookup (cache, font_key, glyph_key)))
+             {
+                img = <rasterize glyph as a pixman_image_t>;
```

```
+
+               g = pixman_glyph_cache_insert (cache, font_key, glyph_key,
+                                              glyph_origin_x, glyph_origin_y,
+
                                               img);
+
+               if (!g)
+               {
+                  /* Clean up out-of-memory condition */
+                  goto oom;
+               }
+
+               glyphs[i].pos_x = glyph_x_pos;
+               glyphs[i].pos_y = glyph_y_pos;
+               glyphs[i].glyph = g;
+            }
+         }
+
+         pixman_composite_glyphs (op, src, dest, ..., cache, n_glyphs, glyphs);
+
+         pixman_glyph_cache_thaw (cache);
+
+   V2:
+   - Move glyphs to front of the MRU list when they are used. Pointed
+     out by Behdad Esfahbod.
+   - Composite glyphs with (white IN glyph) ADD mask in order to support
+     mixed a8 and a8r8g8b8 glyphs. Also pointed out by Behdad.
+   - Add pixman_glyph_get_mask_format
+
+commit a3ae88b71b9d2dfc53303963157ecce4b29f0486
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Wed Apr 27 12:07:16 2011 -0400
+
+   Add doubly linked lists
+

+   This commit adds some new inline functions to maintain a doubly linked
+   list.
+
+   The way to use them is to embed a pixman_link_t into the structures
+   that should be linked, and use a pixman_list_t as the head of the
+   list.
+
+   The new functions are
+
+      pixman_list_init (pixman_list_t *list);
+      pixman_list_prepend (pixman_list_t *list, pixman_link_t *link);
+      pixman_list_move_to_front (pixman_list_t *list, pixman_link_t *link);
```

+
+   There are also a new macro:
+
+   CONTAINER_OF(type, member, data);
+
+   that can be used to get from a pointer to a member to the containing
+   structure.
+
+   V2: Use the C89 macro offsetof() instead of rolling our own -
+   suggested by Alan Coopersmith.
+
+commit c2230fe2aff709de21cc2ee3fa27c3f7578e7f9d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu May 24 03:10:34 2012 -0400
+
+   Make use of image flags in mmx and sse2 iterators
+
+
 Now that we have the full image flags available, the SSE2 and MMX
+   iterators can simply check against SAMPLES_COVER_CLIP_NEAREST (which
+   is computed in pixman_image_composite32()) instead of comparing all
+   the x/y/width/height parameters.
+
+commit c1065a9cb4ab1f5847b2373847c65d8ea68975f1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu May 24 03:00:38 2012 -0400
+
+   Pass the full image flags to iterators
+
+   When pixman_image_composite32() is called some flags are computed that
+   indicate various things about the composite operation that can't be
+   deduced from the image flags themselves. These additional flags are
+   not currently available to iterators. All they can do is read the
+   image flags in image->common.flags.
+
+   Fix that by passing the info->{src, mask, dest}_flags on to the
+   iterator initialization and store the flags in the iter struct as
+   "image_flags". At the same time rename the *iterator* flags variable
+
   to "iter_flags" to avoid confusion.
+
+commit da6193b1fcc1dfab27f4c36917864f2f2c41cf3e
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun May 27 13:01:57 2012 -0400
+
+   mmx: add missing _mm_empty calls
+
+   Fixes spurious test failures on x86-32.

+
+commit 62c4bdc94f82d1e4c5dc0e58b5903382d74f3883
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri May 18 01:37:07 2012 -0400
+
+   mmx: add over_reverse_n_8888
+
+   Loongson:
+   over_reverse_n_8888 = L1: 16.04 L2: 15.35 M: 10.20 (27.96%) HT: 10.95 VT: 10.45 R: 9.18 RT: 6.99 (76Kops/s)
+   over_reverse_n_8888 = L1: 27.40 L2: 26.67 M: 16.97 (45.78%) HT: 16.66 VT: 15.38 R: 14.15 RT: 9.44 (97Kops/s)
+
+   image   poppler   34.106   35.500   1.48%   6/6
+   image   poppler   29.598   30.835   1.70%   6/6
+
+   ARM/iwMMXt:
+   over_reverse_n_8888 = L1: 15.63 L2: 14.33 M: 10.83 (27.55%) HT: 9.78 VT: 9.91 R: 9.49 RT: 6.96 (69Kops/s)
+
+   over_reverse_n_8888 = L1: 22.79 L2: 19.40 M: 13.76 (34.19%) HT: 11.66 VT: 11.86 R: 11.17 RT: 7.85 (75Kops/s)
+
+   image   poppler   38.040   38.606   1.10%   6/6
+   image   poppler   31.686   32.278   0.80%   5/6
+
+commit 17acc7a4c707db4804b6bf47db30883745049fdb
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu May 17 23:27:59 2012 -0400
+
+   mmx: add add_0565_0565
+
+   Loongson:
+   add_0565_0565 = L1: 15.37 L2: 14.91 M: 11.83 (16.06%) HT: 10.53 VT: 10.15 R: 9.74 RT: 6.19 (68Kops/s)
+   add_0565_0565 = L1: 45.06 L2: 46.71 M: 27.45 (38.00%) HT: 23.76 VT: 22.84 R: 18.96 RT: 9.79 (104Kops/s)
+
+   ARM/iwMMXt:
+   add_0565_0565 = L1: 12.87 L2: 11.58 M: 10.11 (12.50%) HT: 9.06 VT: 8.66 R: 7.70 RT: 5.62 (58Kops/s)
+   add_0565_0565 = L1: 31.14 L2: 28.87 M: 22.46 (28.60%) HT: 18.61 VT: 17.04 R: 15.21 RT: 9.35 (90Kops/s)
+
+commit d551dc049498d17ab879fd67d47508cafaaede06
+Author:
 Matt Turner <mattst88@gmail.com>
+Date: Thu May 17 23:29:51 2012 -0400

+
+   fast: add add_0565_0565 function
+
+   I'll need this code for header and tail alignment loops in MMX, so I
+   might as well implement a fast path here.
+
+commit f8dc0e98343c7936a37a3624721c5782e7ac309c
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu May 17 13:22:18 2012 -0400
+
+   mmx: implement expand_4x565 in terms of expand_4xpacked565
+
+   Loongson:
+   over_n_0565 = L1: 38.57 L2: 38.88 M: 30.01 (20.97%) HT: 23.60 VT: 23.88 R: 21.95 RT: 11.65 (
113Kops/s)
+   over_n_0565 = L1: 56.28 L2: 55.90 M: 34.20 (23.82%) HT: 25.66 VT: 26.60 R: 23.78 RT: 11.80 (
115Kops/s)
+
+   over_8888_0565 = L1: 35.89 L2: 36.11 M: 21.56 (45.47%) HT: 18.33 VT: 17.90 R: 16.27 RT: 9.07 (
98Kops/s)
+   over_8888_0565 = L1: 40.91 L2: 41.06 M: 23.13 (48.46%) HT: 19.24 VT: 18.71 R: 16.82 RT: 9.18
(99Kops/s)
+
+   over_n_8_0565 = L1: 28.92 L2: 29.12 M: 21.42 (30.00%) HT: 18.37 VT: 17.75 R: 16.15 RT: 8.79 (
91Kops/s)
+   over_n_8_0565 = L1: 32.32 L2: 32.13 M: 22.44 (31.27%) HT: 19.15 VT: 18.66 R: 16.62 RT: 8.86 (
92Kops/s)
+
+   over_n_8888_0565_ca = L1: 29.33 L2: 29.22 M: 18.99 (66.69%) HT: 16.69 VT: 16.22 R: 14.63 RT: 8.42
(88Kops/s)
+   over_n_8888_0565_ca = L1: 34.97 L2: 34.14 M: 20.32 (71.73%) HT: 17.67 VT: 17.19 R: 15.23 RT: 8.50
(89Kops/s)
+
+   ARM/iwMMXt:
+   over_n_0565 = L1: 29.70 L2: 30.53 M: 24.47 (14.84%) HT: 22.28 VT: 21.72 R: 21.13 RT: 12.58 (
105Kops/s)
+   over_n_0565 = L1: 41.42 L2: 40.00 M: 30.95 (19.13%) HT: 27.06 VT: 27.28 R: 23.43 RT: 14.44 (
114Kops/s)
+
+   over_8888_0565 = L1: 12.73 L2: 11.53 M: 9.07 (16.47%) HT: 9.00 VT: 9.25 R: 8.44 RT: 7.27 (
76Kops/s)
+   over_8888_0565 = L1: 23.72 L2: 21.76 M: 15.89
(29.51%) HT: 14.36 VT: 14.05 R: 12.44 RT: 8.94 (86Kops/s)
+
+   over_n_8_0565 = L1:   6.80 L2:   7.15 M: 6.37 (7.90%) HT: 6.58 VT: 6.24 R: 6.49 RT: 5.94 (
59Kops/s)
+   over_n_8_0565 = L1: 12.06 L2: 11.02 M: 10.16 (13.43%) HT: 9.57 VT: 8.49 R: 9.10 RT: 6.86 (
69Kops/s)

+
+ over_n_8888_0565_ca = L1: 7.62 L2: 7.01 M: 6.27 (20.52%) HT: 6.00 VT: 6.07 R: 5.68 RT: 5.53 (57Kops/s)
+ over_n_8888_0565_ca = L1: 13.54 L2: 11.96 M: 9.76 (30.66%) HT: 9.72 VT: 8.45 R: 9.37 RT: 6.85 (67Kops/s)
+
+commit 51681a052f9e1d0970a79187974da77d9bf69450
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun May 13 20:39:05 2012 -0400
+
+ mmx: add and use expand_4xpacked565 function
+
+ Loongson:
+ add_0565_0565 = L1: 14.39 L2: 13.98 M: 11.28 (15.22%) HT: 10.11 VT: 9.74 R: 9.39 RT: 6.05 (67Kops/s)
+ add_0565_0565 = L1: 15.37 L2: 14.91 M: 11.83 (16.06%) HT: 10.53 VT: 10.15
R: 9.74 RT: 6.19 (68Kops/s)
+
+ ARM/iwMMXt:
+ add_0565_0565 = L1: 11.12 L2: 10.40 M: 8.82 (10.65%) HT: 7.98 VT: 7.41 R: 7.57 RT: 5.21 (54Kops/s)
+ add_0565_0565 = L1: 12.87 L2: 11.58 M: 10.11 (12.50%) HT: 9.06 VT: 8.66 R: 7.70 RT: 5.62 (58Kops/s)
+
+commit 6491c70e3a2a2e10e99c84024895f346f2300f63
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat May 26 16:34:13 2012 -0400
+
+ Post-release version bump to 0.27.1
+
+commit b1a401e6c9f204d33a55eee41897d66ab81d6117
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat May 26 16:17:14 2012 -0400
+
+ Pre-release version bump to 0.26.0
+
+commit f71e3dba979fcfc1cf87d01137e1e32451a173b1
+Author: Ingmar Runge <ingmar@irsoft.de>
+Date: Sat May 19 15:45:18 2012 +0200
+
+ Fix MSVC compilation
+
+ Only up to three SSE intrinsics supported in function declaration.
+
+commit 1e59e18d73a6e45729a99fe6ccc74d61631ff5f0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:

```
   Thu May 24 15:30:41 2012 -0400
+
+    test: Composite with solid images instead of using pixman_image_fill_*
+
+    There is a couple of places where the test suite uses the
+    pixman_image_fill_* functions to initialize images. These functions
+    can fail, and will do so if the "fast" implementation is disabled.
+
+    So to make sure the test suite passes even using
+    PIXMAN_DISABLE="fast", use pixman_image_composite32() with a solid
+    image instead of pixman_image_fill_*.
+
+commit 30816e3068bccf7c78c78f916b54971d24873bdc
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date:   Thu May 3 00:03:43 2012 +0200
+
+    MIPS: DSPr2: Added bilinear over_8888_8_8888 fast path.
+
+    Performance numbers before/after on MIPS-74kc @ 1GHz
+
+    Referent (before):
+
+    cairo-perf-trace:
+    [ # ]  backend                test   min(s) median(s) stddev. count
+    [ # ]    image: pixman 0.25.3
+    [  0]    image          firefox-fishtank
 2289.180 2290.567   0.05%    5/6
+
+    Optimized:
+
+    cairo-perf-trace:
+    [ # ]  backend                test   min(s) median(s) stddev. count
+    [ # ]    image: pixman 0.25.3
+    [  0]    image          firefox-fishtank 1700.925 1708.314   0.22%    5/6
+
+commit aea0522f6f1a51b97a673cfe4dc157e501008580
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date:   Wed May 23 18:53:43 2012 +0200
+
+    MIPS: DSPr2: Fix bug in over_n_8888_8888_ca/over_n_8888_0565_ca routines
+
+    In main loop (unrolled by factor 2), instead of negating multiplied
+    mask values by srca, values of srca was negated, and passed as alpha
+    argument for
+
+        UN8x4_MUL_UN8x4_ADD_UN8x4 macro.
+
+    Instead of:
```

+
+   ma = ~ma;
+   UN8x4_MUL_UN8x4_ADD_UN8x4 (d, ma, s);
+
+   Code was doing this:
+
+   ma = ~srca;
+   UN8x4_MUL_UN8x4_ADD_UN8x4 (d, ma, s);
+
+   Key is in substituting registers s0/s1 (containing srca value),
 with
+   t0/t1 containing mask values multiplied by srca. Register usage is
+   also improved (less registers are saved on stack, for
+   over_n_8888_8888_ca routine).
+
+   The bug was introduced in commit d2ee5631 and revealed by composite test.
+
+commit 74bf5dc2f99245e7b486203b6ba074fb629eb5f3
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun May 20 13:09:16 2012 -0400
+
+   demos: Add parrot.jpg to EXTRA_DIST
+
+   Pointed out by Cyril Brulebois.
+
+commit 55698584be93706794b181cbf595846da578e103
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue May 15 16:32:08 2012 -0400
+
+   configure.ac: Fail the ARM/iwMMXt test if not compiling with -march=iwmmxt
+
+   If not compiling with -march=iwmmxt, the configure test will still pass,
+   thinking that the __builtin_arm_* intrinsic is a function instead of
+   generating a single instruction. Since no linking is done, the configure
+   test doesn't catch this, and we get linking errors in the
 build.
+
+commit 3682b615154338f9754e7c1e046b42bb8ad584fa
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 15 13:38:44 2012 -0400
+
+   Post-release version bump to 0.25.7
+
+commit 1e1a00e964a1d8ef43d6d75c1c3a0b5d518d1979
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 15 13:20:09 2012 -0400
+
+   Pre-release version bump to 0.25.6

+
+   Note that 0.25.4 was a botched release that doesn't have a tag and
+   doesn't correspond to any commit ID. It was however uploaded and
+   announced, so I'll just use the 0.25.6 version number.
+
+commit b2c16aaadfae64d2573abb537bfedd92c13b8d06
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 15 13:19:19 2012 -0400
+
+   demos/Makefile.am: Add parrot.c to EXTRA_DIST
+
+   To get 'make distcheck' to pass.
+
+commit 50d3088d7882e1054a35e917becb7752662da6f0
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri May 11 21:59:13 2012 -0400
+
+   configure.ac: Rename loongson -> loongson-mmi
+

+   Make it match with the other fast paths, and the PIXMAN_DISABLE value is
+   already loongson-mmi.
+
+commit a0a40cb822bec52494c64e6750be50b734dc29df
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri May 11 21:49:42 2012 -0400
+
+   configure.ac: Fix loongson-mmi out-of-tree builds
+
+   When building out-of-tree, gcc wasn't able to find loongson-mmintrin.h
+   to compile the test program. Add -I$srcdir to CFLAGS to point gcc to it.
+
+commit 618a08e6aa03b38e8dc71ac610f7fdd55e8a8558
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Thu May 3 00:03:42 2012 +0200
+
+   MIPS: DSPr2: Added over_n_8_8888 and over_n_8_0565 fast paths.
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz
+
+   Referent (before):
+
+   lowlevel-blt-bench:
+   over_n_8_8888 = L1: 10.40 L2:   9.79 M: 8.47 (33.62%) HT: 7.64 VT: 7.59 R: 7.48 RT: 5.30 (40Kops/s)
+   over_n_8_0565 = L1:   7.40 L2:   7.23 M: 6.78 (17.94%) HT: 6.23 VT: 6.17 R: 6.14 RT: 4.62 (37Kops/s)
+

+ Optimized:
+
+ lowlevel-blt-bench:
+ over_n_8_8888 = L1: 27.25 L2: 26.24 M: 18.15 (72.12%) HT: 14.52 VT: 14.31 R: 13.83 RT: 7.57 (48Kops/s)
+ over_n_8_0565 = L1: 18.91 L2: 17.59 M: 15.06 (39.90%) HT: 12.18 VT: 11.98 R: 11.83 RT: 6.80 (46Kops/s)
+
+commit 7d4beedc612a32b73d7673bbf6447de0f3fca298
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed May 9 19:20:55 2012 -0400
+
+ mmx: add and use pack_4x565 function
+
+ The pack_4x565 makes use of the pack_4xpacked565 function which uses pmadd.
+
+ Some of the speed up is probably attributable to removing the artificial
+ serialization imposed by the
+ vdest = pack_565 (..., vdest, 0);
+ vdest = pack_565 (..., vdest, 1);
+ ...
+ pattern.
+
+ Loongson:
+ over_n_0565 = L1: 16.44 L2: 16.42 M: 13.83 (9.85%) HT: 12.83 VT: 12.61 R: 12.34 RT: 8.90 (93Kops/s)
+
over_n_0565 = L1: 42.48 L2: 42.53 M: 29.83 (21.20%) HT: 23.39 VT: 23.72 R: 21.80 RT: 11.60 (113Kops/s)
+
+ over_8888_0565 = L1: 15.61 L2: 15.42 M: 12.11 (25.79%) HT: 11.07 VT: 10.70 R: 10.37 RT: 7.25 (82Kops/s)
+ over_8888_0565 = L1: 35.01 L2: 35.20 M: 21.42 (45.57%) HT: 18.12 VT: 17.61 R: 16.09 RT: 9.01 (97Kops/s)
+
+ over_n_8_0565 = L1: 15.17 L2: 14.94 M: 12.57 (17.86%) HT: 11.96 VT: 11.52 R: 10.79 RT: 7.31 (79Kops/s)
+ over_n_8_0565 = L1: 29.83 L2: 29.79 M: 21.85 (30.94%) HT: 18.82 VT: 18.25 R: 16.15 RT: 8.72 (91Kops/s)
+
+ over_n_8888_0565_ca = L1: 15.25 L2: 15.02 M: 11.64 (41.39%) HT: 11.08 VT: 10.72 R: 10.02 RT: 7.00 (77Kops/s)
+ over_n_8888_0565_ca = L1: 30.12 L2: 29.99 M: 19.47 (68.99%) HT: 17.05 VT: 16.55 R: 14.67 RT: 8.38 (88Kops/s)
+
+ ARM/iwMMXt:
+ over_n_0565 = L1: 19.29 L2: 19.88 M: 17.38 (10.54%) HT:

15.53 VT: 16.11 R: 13.69 RT: 11.00 (96Kops/s)
+ over_n_0565 = L1: 36.02 L2: 34.85 M: 28.04 (16.97%) HT: 22.12 VT: 24.21 R: 22.36 RT: 12.22 (103Kops/s)
+
+ over_8888_0565 = L1: 18.38 L2: 16.59 M: 12.34 (22.29%) HT: 11.67 VT: 11.71 R: 11.02 RT: 6.89 (72Kops/s)
+ over_8888_0565 = L1: 24.96 L2: 22.17 M: 15.11 (26.81%) HT: 14.14 VT: 13.71 R: 13.18 RT: 8.13 (78Kops/s)
+
+ over_n_8_0565 = L1: 14.65 L2: 12.44 M: 11.56 (14.50%) HT: 10.93 VT: 10.39 R: 10.06 RT: 7.05 (70Kops/s)
+ over_n_8_0565 = L1: 18.37 L2: 14.98 M: 13.97 (16.51%) HT: 12.67 VT: 10.35 R: 11.80 RT: 8.14 (74Kops/s)
+
+ over_n_8888_0565_ca = L1: 14.27 L2: 12.93 M: 10.52 (33.23%) HT: 9.70 VT: 9.90 R: 9.31 RT: 6.34 (65Kops/s)
+ over_n_8888_0565_ca = L1: 19.69 L2: 17.58 M: 13.40 (42.35%) HT: 11.75 VT: 11.33 R: 11.17 RT: 7.49 (73Kops/s)
+
+commit 2beabd9fed76de0023eb36b0c938b8803aa8d129
+Author:
Matt Turner <mattst88@gmail.com>
+Date: Thu May 10 16:15:34 2012 -0400
+
+ configure.ac: make -march=loongson2f come before CFLAGS
+
+ Otherwise we'd have -march=loongson2f being overridden by automake's
+ CFLAGS ordering which causes build failures when -march=<not loongson2f>
+ is specified by the user.
+
+commit dadb9a318b8ca10c65e31e7278f4335a6968d246
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 8 10:05:18 2012 -0400
+
+ Add Makefile.win32 and Makefile.win32.common to EXTRA_DIST
+
+ https://bugs.freedesktop.org/show_bug.cgi?id=46905
+
+commit 3c57ec471e1aacc863747b82bbe0a84c6d776ab7
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed May 9 22:50:50 2012 -0400
+
+ .gitignore: add demos/checkerboard and demos/quad2quad
+
+commit 2d431b53d3cdbf1997e2d3b8e17408c12220c3a1
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Apr 27 14:12:56 2012 -0400
+

+   mmx: Use wpackhus in src_x888_0565 on iwMMXt
+
+
  iwMMXt which has an unsigned saturation pack instruction, while MMX/EXT
+   and Loongson don't.
+
+   ARM/iwMMXt:
+   src_8888_0565 = L1: 110.38 L2: 82.33 M: 40.92 (73.22%) HT: 35.63 VT: 32.22 R: 30.07 RT: 18.40 (
132Kops/s)
+   src_8888_0565 = L1: 117.91 L2: 83.05 M: 41.52 (75.58%) HT: 37.63 VT: 35.40 R: 29.37 RT: 19.39 (
134Kops/s)
+
+commit 2ddd1c498b723e8e48a38eef01d5befba30b5259
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu Apr 19 17:33:27 2012 -0400
+
+   mmx: add src_8888_0565
+
+   Uses the pmadd technique described in
+   http://software.intel.com/sites/landingpage/legacy/mmx/MMX_App_24-16_Bit_Conversion.pdf
+
+   The technique uses the packssdw instruction which uses signed
+   saturatation. This works in their example because they pack 888 to 555
+   leaving the high bit as zero. For packing to 565, it is unsuitable, so
+   we replace it with an or+shuffle.
+
+   Loongson:
+   src_8888_0565 = L1: 106.13 L2: 83.57 M:
 33.46 (68.90%) HT: 30.29 VT: 27.67 R: 26.11 RT: 15.06 (135Kops/s)
+   src_8888_0565 = L1: 122.10 L2: 117.53 M: 37.97 (78.58%) HT: 33.14 VT: 30.09 R: 29.01 RT: 15.76 (
139Kops/s)
+
+   ARM/iwMMXt:
+   src_8888_0565 = L1: 67.88 L2: 56.61 M: 31.20 (56.74%) HT: 29.22 VT: 27.01 R: 25.39 RT: 19.29 (
130Kops/s)
+   src_8888_0565 = L1: 110.38 L2: 82.33 M: 40.92 (73.22%) HT: 35.63 VT: 32.22 R: 30.07 RT: 18.40 (
132Kops/s)
+
+commit 3e8fe65a0893fcd82bdea205de49f53be32bb074
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Apr 18 16:24:28 2012 -0400
+
+   mmx: add x8f8g8b8 fetcher
+
+   Loongson:
+   add_x888_x888 = L1: 29.36 L2: 27.81 M: 14.05 (38.74%) HT: 12.45 VT: 11.78 R: 11.52 RT: 7.23 (
75Kops/s)
+   add_x888_x888 = L1: 36.06 L2: 34.55 M: 14.81 (41.03%) HT: 14.01 VT: 13.41 R: 13.06 RT: 9.06 (

90Kops/s)
+
+   src_x888_8_x888 = L1: 21.92 L2: 20.15 M: 13.35 (41.42%) HT: 11.70 VT: 10.95 R: 10.53
 RT: 6.18 (65Kops/s)
+   src_x888_8_x888 = L1: 25.43 L2: 23.51 M: 14.12 (44.00%) HT: 13.14 VT: 12.50 R: 11.86 RT: 7.49 (
76Kops/s)
+
+   over_x888_8_0565 = L1: 10.64 L2: 10.17 M: 7.74 (21.35%) HT: 6.83 VT: 6.55 R: 6.34 RT: 4.03 (
46Kops/s)
+   over_x888_8_0565 = L1: 11.41 L2: 10.97 M: 8.07 (22.36%) HT: 7.42 VT: 7.18 R: 6.92 RT: 4.62 (
52Kops/s)
+
+   ARM/iwMMXt:
+   add_x888_x888 = L1: 22.10 L2: 18.93 M: 13.48 (32.29%) HT: 11.32 VT: 10.64 R: 10.36 RT: 6.51 (
61Kops/s)
+   add_x888_x888 = L1: 24.26 L2: 20.83 M: 14.52 (35.64%) HT: 12.66 VT: 12.98 R: 11.34 RT: 7.69 (
72Kops/s)
+
+   src_x888_8_x888 = L1: 19.33 L2: 17.66 M: 14.26 (38.43%) HT: 11.53 VT: 10.83 R: 10.57 RT: 6.12 (
58Kops/s)
+   src_x888_8_x888 = L1: 21.23 L2: 19.60 M: 15.41 (42.55%) HT: 12.66 VT: 13.30 R: 11.55 RT: 7.32 (
67Kops/s)
+
+   over_x888_8_0565 = L1:   8.15 L2:   7.56 M: 6.50 (15.58%)
 HT: 5.73 VT: 5.49 R: 5.50 RT: 3.53 (38Kops/s)
+   over_x888_8_0565 = L1:   8.35 L2:   7.85 M: 6.68 (16.40%) HT: 6.12 VT: 5.97 R: 5.78 RT: 4.03 (
43Kops/s)
+
+commit c2b1630d9603f80c2636e8a8bfebca87707d4235
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Apr 18 16:14:08 2012 -0400
+
+   mmx: add a8 fetcher
+
+   oprofile of xfce4-terminal-a1
+   210535   9.0407 libpixman-1.so.0.25.3   fetch_scanline_a8
+   144802   6.0054 libpixman-1.so.0.25.3   mmx_fetch_a8
+
+   Loongson:
+   add_8_8_8 = L1: 17.98 L2: 17.28 M: 14.28 (19.79%) HT: 11.11 VT: 10.38 R: 9.97 RT: 5.14 (
55Kops/s)
+   add_8_8_8 = L1: 20.44 L2: 19.65 M: 15.62 (21.53%) HT: 12.86 VT: 11.98 R: 11.32 RT: 6.13 (
64Kops/s)
+
+   src_8888_8_0565 = L1: 19.97 L2: 18.59 M: 13.42 (32.55%) HT: 11.46 VT: 10.78 R: 10.33 RT: 5.87 (
61Kops/s)
+   src_8888_8_0565 = L1: 21.16 L2: 19.68 M: 13.94 (33.64%) HT: 12.31 VT: 11.52

R: 11.02 RT: 6.54 (68Kops/s)
+
+ src_x888_8_x888 = L1: 20.54 L2: 18.88 M: 13.07 (40.74%) HT: 11.05 VT: 10.36 R: 10.02 RT: 5.68 (60Kops/s)
+ src_x888_8_x888 = L1: 21.92 L2: 20.15 M: 13.35 (41.42%) HT: 11.70 VT: 10.95 R: 10.53 RT: 6.18 (65Kops/s)
+
+ over_x888_8_0565 = L1: 10.32 L2: 9.85 M: 7.63 (21.13%) HT: 6.56 VT: 6.30 R: 6.12 RT: 3.80 (43Kops/s)
+ over_x888_8_0565 = L1: 10.64 L2: 10.17 M: 7.74 (21.35%) HT: 6.83 VT: 6.55 R: 6.34 RT: 4.03 (46Kops/s)
+
+ ARM/iwMMXt:
+ add_8_8_8 = L1: 13.10 L2: 11.67 M: 10.74 (13.46%) HT: 8.62 VT: 8.15 R: 7.94 RT: 4.39 (44Kops/s)
+ add_8_8_8 = L1: 13.81 L2: 12.79 M: 11.63 (13.93%) HT: 9.33 VT: 9.20 R: 9.04 RT: 5.43 (52Kops/s)
+
+ src_8888_8_0565 = L1: 16.62 L2: 15.07 M: 12.52 (27.46%) HT: 10.07 VT: 10.17 R: 9.95 RT: 5.64 (54Kops/s)
+ src_8888_8_0565 = L1: 16.84 L2: 16.11 M: 13.22
(27.71%) HT: 11.74 VT: 10.90 R: 10.80 RT: 6.66 (62Kops/s)
+
+ src_x888_8_x888 = L1: 17.49 L2: 16.22 M: 13.73 (38.73%) HT: 10.10 VT: 10.33 R: 9.55 RT: 5.21 (52Kops/s)
+ src_x888_8_x888 = L1: 19.33 L2: 17.66 M: 14.26 (38.43%) HT: 11.53 VT: 10.83 R: 10.57 RT: 6.12 (58Kops/s)
+
+ over_x888_8_0565 = L1: 7.57 L2: 7.29 M: 6.37 (15.97%) HT: 5.53 VT: 5.33 R: 5.21 RT: 3.22 (35Kops/s)
+ over_x888_8_0565 = L1: 8.15 L2: 7.56 M: 6.50 (15.58%) HT: 5.73 VT: 5.49 R: 5.50 RT: 3.53 (38Kops/s)
+
+commit 20bad64d9a7ff5c2662f12a87f66fcf77c1f3f2c
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Apr 18 16:08:57 2012 -0400
+
+ mmx: add r5g6b5 fetcher
+
+ Loongson:
+ add_0565_0565 = L1: 12.73 L2: 12.26 M: 10.05 (13.87%) HT: 8.77 VT: 8.50 R: 8.25 RT: 5.28 (58Kops/s)
+ add_0565_0565 = L1: 14.04 L2: 13.63 M: 10.96 (15.19%) HT: 9.73 VT: 9.43 R: 9.11 RT: 5.93 (64Kops/s)
+

+ ARM/iwMMXt:
+ add_0565_0565 = L1: 10.36 L2: 10.03 M: 9.04 (10.88%) HT: 3.11 VT: 7.16 R: 7.72 RT: 5.12 (

51Kops/s)
+   add_0565_0565 = L1: 10.84 L2: 10.20 M: 9.15 (11.46%) HT: 7.60 VT: 7.82 R: 7.70 RT: 5.41 (53Kops/s)
+
+commit c136e535adf33069cbf229b8773934d78099af85
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue Apr 17 12:16:55 2012 -0400
+
+   mmx: Use Loongson pextrh instruction in expand565
+
+   Same story as pinsrh in the previous commit.
+
+   text data bss dec hex filename
+   25336 1952   0   27288   6a98 .libs/libpixman_loongson_mmi_la-pixman-mmx.o
+   25072 1952   0   27024   6990 .libs/libpixman_loongson_mmi_la-pixman-mmx.o
+
+   -dsll: 95
+   +dsll: 70
+   -dsrl: 135
+   +dsrl: 105
+   -ldc1: 462
+   +ldc1: 445
+   -lw: 721
+   +lw: 700
+   +pextrh: 30
+
+commit facceb4a1fbba476ad98e76d15868bf7eecd3a30
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue Apr 17 11:28:33 2012 -0400
+
+
  mmx: Use Loongson pinsrh instruction in pack_565
+
+   The pinsrh instruction is analogous to MMX EXT's pinsrw, except like
+   other Loongson vector instructions it cannot access the general purpose
+   registers. In the cases of other Loongson vector instructions, this is a
+   headache, but it is actually a good thing here. Since the instruction is
+   different from MMX, I've named the intrinsic loongson_insert_pi16.
+
+   text data bss dec hex filename
+   25976 1952   0   27928 6d18 .libs/libpixman_loongson_mmi_la-pixman-mmx.o
+   25336 1952   0   27288 6a98 .libs/libpixman_loongson_mmi_la-pixman-mmx.o
+
+   -and: 181
+   +and: 147
+   -dsll: 143
+   +dsll: 95
+   -dsrl: 87

+ +dsrl: 135
+ -ldc1: 523
+ +ldc1: 462
+ -lw: 767
+ +lw: 721
+ +pinsrh: 35
+
+commit 6d29b7d7557ccb657054e867f4e27f4aa89cb25e
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Feb 24 15:23:09 2012 -0500
+
+ mmx: don't pack and unpack src unnecessarily
+

+ The combine function was store8888'ing the result, and all consumers
+ were immediately load8888'ing it, causing lots of unnecessary pack and
+ unpack instructions.
+
+ It's a very straight forward conversion, except for mmx_combine_over_u
+ and mmx_combine_saturate_u. mmx_combine_over_u was testing the integer
+ result to skip pixels, so we use the is_* functions to test the __m64
+ data directly without loading it into an integer register.
+
+ For mmx_combine_saturate_u there's not a lot we can do, since it uses
+ DIV_UN8.
+
+commit ee750034252fb8f44c871e84a5057bc114699ae7
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Feb 24 17:39:39 2012 -0500
+
+ mmx: introduce is_equal, is_opaque, and is_zero functions
+
+ To be used by the next commit.
+
+commit 10c77b339f40fc027b682ef16edec234508d327b
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu Feb 23 16:25:11 2012 -0500
+
+ mmx: simplify srcsrcsrcsrc calculation in over_n_8_0565
+
+commit
e06947d1010ffec4903493df4979119b0ac080d3
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu Feb 23 16:15:56 2012 -0500
+
+ mmx: remove unnecessary uint64_t<->__m64 conversions
+
+ Loongson:

+   add_8888_8888 = L1: 68.73 L2: 55.09 M: 25.39 (68.18%) HT: 25.28 VT: 22.42 R: 20.74 RT: 13.26 (131Kops/s)
+   add_8888_8888 = L1: 159.19 L2: 114.10 M: 30.74 (77.91%) HT: 27.63 VT: 24.99 R: 24.61 RT: 14.49 (141Kops/s)
+
+commit c78e986085b3993f1b4355151820228c53d54cad
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Feb 24 12:43:43 2012 -0500
+
+   mmx: compile on MIPS for Loongson MMI optimizations
+
+   image   image16
+   evolution   32.985 -> 29.667   27.314 -> 23.870
+   firefox-planet-gnome 197.982 -> 180.437   220.986 -> 205.057
+   gnome-system-monitor   48.482 -> 49.752   52.820 -> 49.528
+   gnome-terminal-vim   60.799 -> 50.528   51.655 -> 44.131
+   grads-heat-map
    3.167 ->   3.181   3.328 ->   3.321
+   gvim   38.646 -> 32.552   38.126 -> 34.453
+   midori-zoomed   44.371 -> 43.338   28.860 -> 28.865
+   ocitysmap   23.065 -> 18.057   23.046 -> 18.055
+   poppler   43.676 -> 36.077   43.065 -> 36.090
+   swfdec-giant-steps   20.166 -> 20.365   22.354 -> 16.578
+   swfdec-youtube   31.502 -> 28.118   44.052 -> 41.771
+   xfce4-terminal-a1   69.517 -> 51.288   62.225 -> 53.309
+
+commit 4e0c7902b2c8e517d102a8fccb9cf7da9725f59f
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Feb 15 01:19:07 2012 -0500
+
+   mmx: make ldq_u take __m64* directly
+
+   Before, if __m64 is allocated in vector or floating-point registers,
+
+   __m64 vs = ldq_u((uint64_t *)src);
+
+   would cause src to be loaded into an integer register and then
+   transferred to an __m64 register. By switching ldq_u's argument type to
+   __m64 we give the
 compile enough information to recognize that it can
+   load to the vector register directly.
+
+   This patch is necessary for the Loongson optimizations when __m64 is
+   typedef'd as double.
+
+commit 2e54b76a2d2203b6a70190f488d76d6d409e879a
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Feb 24 12:34:41 2012 -0500

```
+
+    mmx: add load function and use it in add_8888_8888
+
+commit 084e3f2f4be900041cc35830359606addc1fc3be
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Fri Feb 24 12:32:03 2012 -0500
+
+    mmx: add store function and use it in add_8888_8888
+
+commit e24c1c849d29f43dc6e50e1f15102709059b40f8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Apr 5 00:52:21 2012 -0400
+
+    bits_image_fetch_pixel_convolution(): Make sure channels are signed
+
+    In the computation:
+
+        srtot += RED_8 (pixel) * f
+
+    RED_8 (pixel) is an unsigned quantity, which means the signed filter
+    coefficient f gets converted to an unsigned
 integer before the
+    multiplication. We get away with this because when the 32 bit unsigned
+    result is converted to int32_t, the correct sign is produced. But if
+    srtot had been an int64_t, the result would have been a very large
+    positive number.
+
+    Fix this by explicitly casting the channels to int.
+
+commit 4d2fee14063b960c6b81b55dd3aa94b956d23eeb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Apr 5 00:42:55 2012 -0400
+
+    test/utils.c: Clip values to the [0, 255] interval
+
+    Unpremultiplying a superluminescent pixel can result in values greater
+    than 255.
+
+commit e2917645846b64fdc7f2190806c97b0ef4b0fd5b
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Wed Apr 18 18:14:13 2012 -0400
+
+    configure.ac: fix iwMMXt/gcc version error message
+
+commit b87cd1f6059789cb154677d8432045a5ca8e16c1
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Sun Apr 15 14:03:08 2012 -0400
+
```

+   mmx: fix _mm_shuffle_pi16 function when compiling
 without optimization
+
+   The last argument must be an immediate value, and when compiling without
+   optimization the compiler might not recognize this. So use a macro if
+   not optimizing.
+
+commit e927d2397141f80aecd2702ce5f38349c41aebe5
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun Apr 15 14:00:17 2012 -0400
+
+   configure.ac: require >= gcc-4.5 for ARM iwMMXt
+
+   We're using a patched gcc-4.5, and having to modify configure.ac and
+   autoreconf between changes is annoying. And besides, 4.5, 4.6, and 4.7's
+   iwMMXt intrinsic support is equally broken, and we test a known broken
+   intrinsic in the configure test program, so the version check is rather
+   meaningless.
+
+commit 0531170436a2a10a995c7487b396f1378affdb98
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu Apr 5 17:36:05 2012 -0400
+
+   mmx: Use force_inline instead of __inline__ (bug 46906)
+
+   Fixes the build on MSVC.
+
+commit b950bb12dc2baaee441b875bd81b67e48947d2f6
+Author:
 Matt Turner <mattst88@gmail.com>
+Date: Thu Mar 15 19:16:20 2012 -0400
+
+   mmx: enable over_n_0565 for b5g6r5
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 87ecec8d72be4106358e843a1e7a907b0e814f7f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Apr 2 15:16:18 2012 -0400
+
+   gtk-utils.c: In pixbuf_from_argb32() use a8r8g8b8_to_rgba_np()
+
+   Instead of inlining a copy of that functionality.
+
+commit d1ec1467f607c21a4d8b445eab5465ca60a12a97
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Apr 2 15:09:16 2012 -0400
+

+   test/utils.c: Rename and export the pngify_pixels() function.
+
+   This function converts from a8r8g8b8 to non-premultiplied RGBA (the
+   PNG or GdkPixbuf format that has the channels in this order: R, G, B,
+   A in memory regardless of the computer's endianness). The function's
+   new name is a8r8g8b8_to_rgba_np().
+
+commit b16ddf17829633ec6eb54656924b7e841c6c69a4
+Author: Søren
 Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Apr 2 14:59:02 2012 -0400
+
+   gtk-utils.c: Don't include pixman-private.h
+
+   Use pixman_image_get_format() instead of image->bits.format.
+
+commit b9ca23a9c711280a706eb1df30a0cfaf3b2d8e27
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Mar 25 12:14:54 2012 -0400
+
+   Rename fast_composite_add_1000_1000 to _add_1_1()
+
+   The 1000_1000 name is a relic from before the refactoring.
+
+commit 746291a19ed29e2da6de57b382a1dfaa900d067b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jan 16 06:46:52 2011 -0500
+
+   Add the original parrot image.
+
+   This is the Parrot image that was downscaled and cropped before being
+   used in the composite-test.c demo.
+
+commit 451b25ae90ea077a78d2606ce107b826043a252b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 6 06:06:59 2010 -0400
+
+   composite-test.c: Add a parrot image
+
+   Instead of the yellow square, use a parrot
 as the source image. This
+   demonstrates the various blend modes much better.
+
+   The parrot is a cropped version of finger painting by Rubens LP:
+
+   http://www.flickr.com/photos/dorubens/4030604504/in/set-72157622586088192/
+
+   where the background has been removed. Used here under Creative

+ Commons Attribution. The artist's web site:
+
+ http://www.rubenslp.com.br/
+
+commit 3aa45d62e45f40faa98f9bb47046578bf19e7574
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 6 03:56:55 2010 -0400
+
+ composite-test.c: Use similar gradient to the one in the PDF spec.
+
+commit e1b8969e78eecf9abaaf2b317c10fddf64b02799
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 12 04:49:27 2011 -0400
+
+ demos: Add checkerboard demo
+
+ This is a simple demo that displays a checkboard with a projective
+ transformation.
+
+commit 41863fbabb6dd08871aed47beba5d08ae2ae3cf6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
Wed Oct 12 04:48:33 2011 -0400
+
+ demos: Add quad2quad program
+
+ This program can compute the projective transformation that transforms
+ one quadrilateral into another. The code is basically maxima[1] output
+ translated into C.
+
+ [1] http://maxima.sourceforge.net/
+
+commit cf0d0d63645bcb6425a1e2d7b5d9f1e26e205247
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Mar 14 17:11:14 2012 -0400
+
+ Use "=a" and "=d" constraints for rdtsc inline assembly
+
+ In 32 bit mode the "=A" constraint refers to the register pair
+ edx:eax, but according to GCC developers this is not the case in 64
+ bit mode, where it refers to "rax".
+
+ Hence, using "=A" for rdtsc is incorrect in 64 bit mode.
+
+ See http://gcc.gnu.org/bugzilla/show_bug.cgi?id=21249
+
+commit 8a8aabf05c8e6c7b68b68c80e4e73877fd35ce78
+Author: Jeremy Huddleston <jeremyhu@apple.com>

+Date: Fri Mar 16 11:37:23 2012 -0700
+
+   configure.ac:
 Fix a copy-paste-o in TLS detection
+
+   Regression from: a069da6c66da407cc52e1e92321d69c68fd6beb5
+
+   Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
+   Tested-by: Matt Turner <mattst88@gmail.com>
+
+commit ee6bac11c28b350c183f190b6c648c316ee1109d
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Mar 14 16:48:00 2012 -0400
+
+   Use AC_LANG_SOURCE for DSPr2 configure program
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 21eeecffa93ba5912487d88851b1a5c60fc37768
+Author: Chun-wei Fan <fanchunwei@src.gnome.org>
+Date: Fri Mar 9 15:54:06 2012 +0800
+
+   Just include xmmintrin.h on MSVC as well
+
+   The xmmintrin.h as shipped with recent Visual C++ (2003+) provides
+   _mm_shuffle_pi16 and _mm_mulhi_pu16, so including that header
+   will do for using these functions, and MSVC does not like the GCC-specific
+   implementations of _mm_shuffle_pi16 and _mm_mulhi_pu16 that is
+   currently in the code.
+
+   _MM_SHUFFLE is declared
 in the same way in MSVC's xmmintrin.h, so don't
+   re-define it here to avoid a compilation warning.
+
+commit 94aea2e868ae02235785f31b275f89b9661bca0e
+Author: Jeremy Huddleston <jeremyhu@apple.com>
+Date: Wed Mar 14 10:26:18 2012 -0700
+
+   Fix a false-negative in MMX check
+
+   Silence warnings that could make -Werror give a false negative
+   Use signed char to avoid cases where int8_t isn't declared
+
+   Reported-by: Mike Lothian <mike@fireburn.co.uk>
+   Tested-by: Mike Lothian <mike@fireburn.co.uk>
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+   Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
+

+commit d2ee5631ae42d031289ae80352e02bafa3f06ed4
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Sun Mar 11 18:52:25 2012 +0100
+
+   MIPS: DSPr2: Added over_n_8888_8888_ca and over_n_8888_0565_ca fast paths.
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz
+
+   Referent (before):
+
+   lowlevel-blt-bench:
+

     over_n_8888_8888_ca = L1: 8.32 L2: 7.65 M: 6.38 (51.08%) HT: 5.78 VT: 5.74 R: 5.84 RT: 4.39 (
37Kops/s)
+   over_n_8888_0565_ca = L1: 7.40 L2: 6.95 M: 6.16 (41.06%) HT: 5.72 VT: 5.52 R: 5.63 RT: 4.28
(36Kops/s)
+   cairo-perf-trace:
+   [#] backend   test   min(s) median(s) stddev. count
+   [#]   image: pixman 0.25.3
+   [0]   image   xfce4-terminal-a1 138.223 139.070   0.33%   6/6
+   [#] image16: pixman 0.25.3
+   [0] image16   xfce4-terminal-a1 132.763 132.939   0.06%   5/6
+
+   Optimized:
+
+   lowlevel-blt-bench:
+   over_n_8888_8888_ca = L1: 19.35 L2: 23.84 M: 13.68 (109.39%) HT: 11.39 VT: 11.19 R: 11.27 RT:
6.90 (47Kops/s)
+   over_n_8888_0565_ca = L1: 18.68 L2: 17.00 M: 12.56 (83.70%) HT: 10.72 VT: 10.45 R: 10.43 RT:
5.79 (43Kops/s)
+   cairo-perf-trace:
+   [#] backend   test   min(s) median(s)
 stddev. count
+   [#]   image: pixman 0.25.3
+   [0]   image   xfce4-terminal-a1 130.400 131.720   0.46%   6/6
+   [#] image16: pixman 0.25.3
+   [0] image16   xfce4-terminal-a1 125.830 126.604   0.34%   6/6
+
+commit a069da6c66da407cc52e1e92321d69c68fd6beb5
+Author: Jeremy Huddleston <jeremyhu@apple.com>
+Date: Thu Mar 8 09:41:34 2012 -0800
+
+   Expand TLS support beyond __thread to __declspec(thread)
+
+   This code was pretty much coppied from a similar commit that I made to
+   xorg-server in April.
+
+   cf: xorg/xserver: bb4d145bd25e2aee988b100ecf1105ea3b6a40b8

+
+   Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
+
+commit 61d999b9101c76bd463101923d2143e31857e7f8
+Author: Jeremy Huddleston <jeremyhu@apple.com>
+Date: Thu Mar 8 09:41:32 2012 -0800
+
+   Disable MMX when incompatible clang is being used.
+
+   Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
+
+commit ad4b6922f23e91b291c794b9fde5ee81941adb64
+Author:
 Jeremy Huddleston <jeremyhu@apple.com>
+Date: Thu Mar 8 09:41:33 2012 -0800
+
+   Silence a warning about unused pixman_have_mmx
+
+   Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
+
+commit bb5ff2687815eff20757612de965663ef3a2525b
+Author: Jeremy Huddleston <jeremyhu@apple.com>
+Date: Thu Mar 8 09:41:31 2012 -0800
+
+   Revert "Disable MMX when Clang is being used."
+
+   This reverts commit 5eb4c12a79b3017ec6cc22ab756f53f225731533.
+
+commit a6ad5120f7bd4add3b2e9c03c9fd769d5bbfd191
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Mar 8 10:11:20 2012 -0500
+
+   Post-release version bump to 0.25.3
+
+commit f73f7985318bf0e7446941d9bea9a94b35580342
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Mar 8 09:33:16 2012 -0500
+
+   Pre-release version bump to 0.25.2
+
+commit 62df04eb257d16fbb4449855a48f6fdaf567e201
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Mar 8 09:29:46 2012 -0500
+
+   mmx:
 Squash a warning by making the argument to ldl_u() const
+
+commit 85943733cbd7b62991ee962aa22f28bc5d1be353

+Author: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Fri Feb 24 18:02:56 2012 -0800
+
+   Just use xmmintrin.h when building with Solaris Studio compilers
+
+   Since the Solaris Studio compilers don't have a mode where MMX
+   instructions are available and SSE instructions are not, we can
+   just use the <xmmintrin.h> header directly.
+
+   Fixes build failure due to Studio not supporting the __gnu_inline__
+   or __artificial__ attributes.
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+   Acked-by: Matt Turner <mattst88@gmail.com>
+
+commit 304f57644ac6a991c6e538675de935356252c0a5
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Wed Feb 29 12:04:33 2012 +0100
+
+   MIPS: DSPr2: Added mips_dspr2_blt and mips_dspr2_fill routines.
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz
+
+   Referent (before):
+

+   lowlevel-blt-bench:
+   src_n_0565 = L1: 238.14 L2: 233.15 M: 57.88 (77.23%) HT: 53.22 VT: 49.99 R: 47.73 RT: 24.79
(91Kops/s)
+   src_n_8888 = L1: 190.19 L2: 187.57 M: 28.94 (77.23%) HT: 27.91 VT: 27.33 R: 26.64 RT: 14.68
(77Kops/s)
+   cairo-perf-trace:
+   [#] backend   test   min(s) median(s) stddev. count
+   [#]   image: pixman 0.25.1
+   [0]   image   gnome-system-monitor 268.460 269.712   0.22%   6/6
+
+   Optimized:
+
+   lowlevel-blt-bench:
+   src_n_0565 = L1:1081.39 L2: 258.22 M:189.59 (252.91%) HT: 60.23 VT: 55.01 R: 53.44 RT:
23.68 (89Kops/s)
+   src_n_8888 = L1: 653.46 L2: 113.55 M:135.26 (360.86%) HT: 38.99 VT: 37.38 R: 34.95 RT:
18.67 (84Kops/s)
+   cairo-perf-trace:
+   [#] backend   test   min(s) median(s) stddev. count
+   [#]   image: pixman 0.25.1
+   [0]   image

```
       gnome-system-monitor  246.565  246.706   0.04%    6/6
+
+commit 999e72b80bd5e3fab5f45b6ad19511389b58d9ab
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Mar 1 02:24:54 2012 -0500
+
+    pixman-access.c: Remove some unused macros
+
+    The macros related to palette entries:
+
+    RGB15_TO_ENTRY,
+    RGB24_TO_ENTRY,
+    RGB24_TO_ENTRY_Y
+
+    are not used anywhere.
+
+commit c0cb48aae0d09200a187965094138fbf488498cd
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Wed Feb 29 04:44:46 2012 -0500
+
+    pixman-accessors.h: Delete unused macros
+
+    The MEMCPY_WRAPPED and ACCESS macros are not used anymore.
+
+commit 5adf569317f923cd5eb547209a8d927be0d81049
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Sun Feb 26 17:35:20 2012 -0500
+
+    Move fetching for solid bits images to pixman-noop.c
+
+    This should be a bit faster because it can reuse the scanline on each iteration.
+
+commit 3c3c70fa0b524569df0ec20c50d481626e518462
+Author:
 Matt Turner <mattst88@gmail.com>
+Date:   Fri Feb 24 20:11:11 2012 -0500
+
+    lowlevel-blt-bench: add in_8_8 and in_n_8_8
+
+    Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit fcea053561893d116a79f41a113993f1f61b58cf
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Wed Jan 26 13:16:09 2011 -0500
+
+    Disable implementations mentioned in the PIXMAN_DISABLE environment variable.
+
+    With this, it becomes possible to do
```

+
+   PIXMAN_DISABLE="sse2 mmx" some_app
+
+   which will run some_app without SSE2 and MMX enabled. This is useful
+   for benchmarking, testing and narrowing down bugs.
+
+   The current list of implementations that can be disabled:
+
+   fast
+   mmx
+   sse2
+   arm-simd
+   arm-iwmmxt
+   arm-neon
+   mips-dspr2
+   vmx
+
+   The general and noop implementations can't be disabled because pixman
+   depends on those being available for correct
 operation.
+
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+
+commit e7574d336b7c812a888fac22f99f1b0e9a3518b0
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date: Wed Feb 22 14:23:48 2012 +0100
+
+   MIPS: DSPr2: Added fast-paths for SRC operation.
+
+   Following fast-path functions are implemented (routines 4, 5 and 6 utilize
+   same fast-memcpy routine):
+   1. src_x888_8888
+   2. src_8888_0565
+   3. src_0565_8888
+   4. src_0565_0565
+   5. src_8888_8888
+   6. src_0888_0888
+
+   Performance numbers before/after on MIPS-74kc @ 1GHz
+
+   Referent (before):
+
+   lowlevel-blt-bench:
+   src_x888_8888 = L1: 199.35 L2: 96.54 M: 18.87 (100.68%) HT: 17.12 VT: 16.24 R: 15.43 RT: 9.33 (
61Kops/s)
+   src_8888_0565 = L1: 71.22 L2: 51.95 M: 24.19 (96.17%) HT: 20.71 VT: 19.92 R: 18.15 RT: 9.92 (
63Kops/s)
+   src_0565_8888 = L1: 38.82 L2: 36.22 M: 18.60 (73.95%) HT:

```
 14.47  VT: 13.19  R: 12.97  RT:  6.61 (  49Kops/s)
+          src_0565_0565 =  L1: 286.05  L2: 155.02  M: 37.68 (100.54%)  HT: 31.08  VT: 28.07  R: 26.26  RT: 11.93
(  68Kops/s)
+          src_8888_8888 =  L1: 454.32  L2: 139.15  M: 19.30 (102.98%)  HT: 17.73  VT: 16.08  R: 16.62  RT: 10.45
(  64Kops/s)
+          src_0888_0888 =  L1: 190.47  L2: 106.14  M: 25.26 (101.08%)  HT: 21.88  VT: 20.32  R: 18.83  RT: 10.10
(  63Kops/s)
+    cairo-perf-trace:
+    [ # ]  backend                  test    min(s) median(s) stddev. count
+    [ # ]    image: pixman 0.25.1
+    [  0]    image          firefox-asteroids  421.215  421.325   0.01%    4/6
+    [  1]    image        firefox-planet-gnome  647.708  648.486   0.13%    6/6
+    [  2]    image        gnome-system-monitor  276.073  277.506   0.38%    6/6
+    [  3]    image          gnome-terminal-vim  263.866  265.229   0.39%    6/6
+    [  4]    image                   poppler  123.576  124.003   0.15%    6/6
+
+    Optimized
 (with these optimizations):
+
+    lowlevel-blt-bench:
+          src_x888_8888 =  L1: 369.50  L2:  99.37  M: 27.19 (145.07%)  HT: 20.24  VT: 19.48  R: 19.00  RT: 10.22
(  63Kops/s)
+          src_8888_0565 =  L1: 105.65  L2:  67.87  M: 25.41 (101.00%)  HT: 20.78  VT: 19.84  R: 18.52  RT:  9.81 (
63Kops/s)
+          src_0565_8888 =  L1:  77.10  L2:  63.04  M: 23.37 ( 92.90%)  HT: 20.29  VT: 19.37  R: 18.14  RT: 10.02 (
63Kops/s)
+          src_0565_0565 =  L1: 519.02  L2: 241.32  M: 62.35 (166.34%)  HT: 33.74  VT: 27.63  R: 26.12  RT: 11.70
(  67Kops/s)
+          src_8888_8888 =  L1: 390.48  L2: 113.99  M: 30.32 (161.77%)  HT: 19.55  VT: 17.05  R: 17.13  RT: 10.19
(  63Kops/s)
+          src_0888_0888 =  L1: 349.74  L2: 156.68  M: 40.68 (162.78%)  HT: 25.58  VT: 20.57  R: 20.20  RT:  9.96
(  63Kops/s)
+    cairo-perf-trace:
+    [ # ]  backend                  test    min(s) median(s) stddev. count
+    [ # ]    image: pixman 0.25.1
+    [  0]    image
          firefox-asteroids  400.050  400.308   0.04%    6/6
+    [  1]    image        firefox-planet-gnome  628.978  629.364   0.07%    6/6
+    [  2]    image        gnome-system-monitor  270.247  270.313   0.03%    6/6
+    [  3]    image          gnome-terminal-vim  256.413  257.641   0.21%    6/6
+    [  4]    image                   poppler  119.540  120.023   0.21%    6/6
+
+commit 1364c91bd106f8b67c9cd1bda2fdd9d46ac40363
+Author: Nemanja Lukic <nemanja.lukic@rt-rk.com>
+Date:   Wed Feb 22 14:23:47 2012 +0100
+
+    MIPS: DSPr2: Basic infrastructure for MIPS architecture
+
```

```
+    MIPS DSP instruction set extensions
+
+commit e43d65d49da2c3e929cf20e82a2f7ed1fa0d0167
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Fri Feb 24 20:02:55 2012 -0500
+
+    lowlevel-blt: add over_x888_n_8888
+
+    Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 9f607049956c6858706c7ca45829c5ad19f18191
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Fri Feb 24 19:58:09 2012
 -0500
+
+    lowlevel-blt: add over_8888_8888
+
+    Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 5eb4c12a79b3017ec6cc22ab756f53f225731533
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Feb 23 18:36:04 2012 -0500
+
+    Disable MMX when Clang is being used.
+
+    There are several issues with the Clang compiler and pixman-mmx.c:
+
+    - When not optimizing, it doesn't seem to recognize that an argument
+      to an __always_inline__ function is compile-time constant. This
+      results in this error being produced:
+
+          fatal error: error in backend: Invalid operand for inline asm
+                constraint 'K'!
+
+    - This inline assembly:
+
+          asm ("pmulhuw %1, %0\n\t"
+              : "+y" (__A)
+              : "y" (__B)
+          );
+
+      results in
+
+          fatal error: error in backend: Unsupported asm: input constraint
+                with a matching output constraint of incompatible
 type!
+
+    So disable MMX when the compiler is Clang.
```

+
+commit 350e231b3f01d6f82a2fdc7d9a9945234c404d0a
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue Feb 21 23:33:02 2012 -0500
+
+   mmx: make load8888 take a pointer to data instead of the data itself
+
+   Allows us to tune how we load data into the vector registers.
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+   And squashed in:
+
+   mmx: define and use load8888u function
+
+   For unaligned loads.
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit ab68316eda91bbf6bb41158c622347723e1fa8c4
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue Feb 21 19:29:59 2012 -0500
+
+   mmx: make store8888 take uint32_t *dest as argument
+
+   Allows us to tune how we store data from the vector registers.
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 57a245a6e00987191faad9a34bef9f4524a6848c
+Author: Matt Turner <mattst88@gmail.com>
+Date:
  Wed Feb 22 16:32:21 2012 -0500
+
+   Update .gitignore with more demos and tests
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 51ae3f2d7f25daebbc767f161f0097b581d1554b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 21 19:30:04 2012 -0500
+
+   mmx: Delete unused function in_over_full_src_alpha()
+
+   Also a few minor formatting fixes.
+
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+

+commit bbd1e6941b39adcdb64c77670889314fa8461c0b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 21 19:23:33 2012 -0500
+
+   mmx: Enable over_x888_8_8888() for x86 as well
+
+   It used to be slower than the generic code (with the gcc that was
+   current in 2007), but that doesn't seem to be the case anymore:
+
+   over_x888_8_8888 = L1: 22.97 L2: 22.88 M: 22.27 (5.29%) HT: 18.30 VT: 15.81 R: 15.54 RT: 10.35 (
131Kops/s)
+   over_x888_8_8888 = L1: 53.56 L2: 53.20 M: 50.50 (11.99%) HT: 38.60 VT:
 31.19 R: 29.00 RT: 17.37 (208Kops/s)
+
+   Reviewed-by: Matt Turner <mattst88@gmail.com>
+
+commit 4fc586c3df9a53cc1406891e751a6eed3d7da400
+Author: Matt Turner <mattst88@gmail.com>
+Date: Tue Feb 21 16:28:37 2012 -0500
+
+   mmx: fix typo in pix_add_mul on MSVC
+
+   Typo introduced in commit a075a870.
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 84221f4c1687b8ea14e9cbdc78b2ba7258e62c9e
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun Feb 19 18:10:03 2012 -0500
+
+   mmx: Use _mm_shuffle_pi16
+
+   The pshufw x86 instruction is part of Extended 3DNow! and SSE1. The
+   equivalent ARM wshufh instruction was available from the first iwMMXt
+   instrucion set.
+
+   This instruction is already used in the SSE2 code.
+
+   Reduces code size by ~9%.
+
+   amd64
+   text   data   bss   dec   hex filename
+   29925   2240   0   32165   7da5 .libs/libpixman_mmx_la-pixman-mmx.o
+   27237   2240   0
 29477   7325 .libs/libpixman_mmx_la-pixman-mmx.o
+
+   x86
+   text   data   bss   dec   hex filename

```
+    27677    1792      0   29469    731d .libs/libpixman_mmx_la-pixman-mmx.o
+    24959    1792      0   26751    687f .libs/libpixman_mmx_la-pixman-mmx.o
+
+    arm
+     text    data     bss     dec     hex filename
+    30176    1792      0   31968    7ce0 .libs/libpixman_iwmmxt_la-pixman-mmx.o
+    27384    1792      0   29176    71f8 .libs/libpixman_iwmmxt_la-pixman-mmx.o
+
+    Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 14208344964f341a7b4a704b05cf4804c23792e9
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Sun Feb 19 01:32:31 2012 -0500
+
+    mmx: Use _mm_mulhi_pu16
+
+    The pmulhuw x86 instruction is part of Extended 3DNow! and SSE1. The
+    equivalent ARM wmuluh instruction was available from the first iwMMXt
+    instrucion set.
+
+    This instruction is already used in the SSE2 code.
+
+    Reduces code size
 by ~5%.
+
+    amd64
+     text    data     bss     dec     hex filename
+    31325    2240      0   33565    831d .libs/libpixman_mmx_la-pixman-mmx.o
+    29925    2240      0   32165    7da5 .libs/libpixman_mmx_la-pixman-mmx.o
+
+    x86
+     text    data     bss     dec     hex filename
+    29165    1792      0   30957    78ed .libs/libpixman_mmx_la-pixman-mmx.o
+    27677    1792      0   29469    731d .libs/libpixman_mmx_la-pixman-mmx.o
+
+    arm
+     text    data     bss     dec     hex filename
+    31632    1792      0   33424    8290 .libs/libpixman_iwmmxt_la-pixman-mmx.o
+    30176    1792      0   31968    7ce0 .libs/libpixman_iwmmxt_la-pixman-mmx.o
+
+    Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 69ed71fad11d541f89eee1238c587a03a9cf59cb
+Author: Matt Turner <mattst88@gmail.com>
+Date:   Tue Feb 21 00:05:45 2012 +0000
+
+    mmx: enable over_x888_8_8888 on ARM/iwMMXt
+
```

+ before: over_x888_8_8888 = L1: 7.63 L2:
7.72 M: 6.44 (19.17%) HT: 6.24 VT: 6.11 R: 5.87 RT: 4.61 (51Kops/s)
+ after : over_x888_8_8888 = L1: 11.88 L2: 11.11 M: 8.70 (26.01%) HT: 8.15 VT: 8.07 R: 7.76 RT: 5.62
(61Kops/s)
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit a14f0f66bba987d5cdcb4a3e0f3e9f7c35d3f6f0
+Author: Matt Turner <mattst88@gmail.com>
+Date: Mon Feb 20 18:36:24 2012 -0500
+
+ autoconf: use #error instead of error
+
+ We'd rather see the actual #error message rather than a syntax error in
+ config.log.
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit fced5c82c2f0d6d00cb8d0a30ce6a04ec196d274
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Feb 17 18:17:49 2012 -0500
+
+ Convert while (w) to if (w) when possible
+
+ Missed in commit 57fd8c37.
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit e27bdcd968e786079353432d14816600bf813d76
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Feb 15
18:16:42 2012 -0500
+
+ Make sure to run AC_SUBST IWMMXT_CFLAGS
+
+ Allows you to compile without -flax-vector-conversions in your CFLAGS,
+ though -march=iwmmxt2 is still necessary since specifying some other
+ -march= value will override it, and disable iwmmxt.
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 82a3980701c68949ed762b1e93dc81698db1613e
+Author: Jeremy Huddleston <jeremyhu@apple.com>
+Date: Sat Feb 11 01:04:13 2012 -0800
+
+ configure.ac: Add an --enable-libpng option
+
+ Now there is a way to not link against libpng even if it's available.

+
+   Signed-off-by: Jeremy Huddleston <jeremyhu@apple.com>
+
+commit 46fc4eb234f5c4f281c2901ea7514ff69e8670a8
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sat Feb 11 23:21:45 2012 -0500
+
+   Use AC_LANG_SOURCE for iwMMXt configure program
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit e5555d7a749c90288463ed1c294f58963c607e52
+Author: Søren Sandmann Pedersen
 <ssp@redhat.com>
+Date: Wed Jan 25 14:03:05 2012 -0500
+
+   Revert "Reject trapezoids where top (botttom) is above (below) the edges"
+
+   Cairo 1.10 will sometimes generate trapezoids like this, so we can't
+   consider them invalid. Fixes bug 45009, reported by Michael Biebl.
+
+   This reverts commit 2437ae80e5066dec9fe52f56b016bf136d7cea06.
+
+commit 35577876978e86783d49c500b4bb7ea1fc7fa89c
+Author: Bobby Salazar <bobby8934@gmail.com>
+Date: Thu Jan 26 13:19:18 2012 -0500
+
+   iOS Runtime Detection Support For ARM NEON
+
+   This patch adds runtime detection support for the ARM NEON fast paths
+   for code compiled with the iOS SDK.
+
+commit 86ce1808829e3fa024acb0ebaa93ef9737ba51af
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Dec 19 19:31:25 2011 -0500
+
+   test: Port composite test over to use new pixel_checker_t object.
+
+   Also make some tweaks to the way the errors are printed.
+
+commit f57034f678b419c3737b888f643e5bdfcaf727f9
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Dec 19 17:31:06 2011 -0500
+
+   test: Add a new "pixel_checker_t" object.
+
+   Add a new pixel_checker_t object to test/utils.[ch]. This object

+   should be initialized with a format and can then be used to check
+   whether a given "real" pixel in that format is close enough to a
+   "perfect" pixel given as a double precision ARGB struct.
+
+   The acceptable deviation is calcuated as follows. Each channel of the
+   perfect pixel has 0.004 subtracted from it and is then converted to
+   the format. The resulting value is the minimum value that will be
+   accepted. Similarly, to compute the maximum value, the channel has
+   0.004 added to it and is then converted to the given format. Checking
+   a pixel is then a matter of splitting it into channels and checking
+   that each is within the computed bounds.
+
+   The value of 0.004 was chosen because it is the minimum one that will
+
    make the existing composite test pass (see next commit). A problem
+   with this value is that it causes 0xFE to be acceptable when the
+   correct value is 1.0, and 0x01 to be acceptable when the correct value
+   is 0. It would be better if, when the result is exactly 0 or exactly
+   1, an a8r8g8b8 pixel were required to produce exactly 0x00 or 0xff to
+   preserve full black and full white. A deviation value of 0.003 would
+   produce this, but currently this would cause tests with operators that
+   involve divisions to fail.
+
+commit 0053a9f8694c837388b78ae26fe81979d0327d28
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Dec 19 19:53:28 2011 -0500
+
+   Rename color_correct() to round_color()
+
+   And do the rounding from float to int in the same way cairo does: by
+   multiplying with (1 << width), then subtracting one when the input was 1.0.
+
+commit 55a010bf31d2eaf71126bdf93eca99fc02037535
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
   Thu Dec 22 18:15:02 2011 -0500
+
+   Move the color_correct() function from composite.c to utils.c
+
+commit 065666f33c414582425e4ac0ec9f694e93c2baf1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jan 8 10:32:47 2012 -0500
+
+   Get rid of delegates for combiners
+
+   Add a new function _pixman_implementation_lookup_combiner() that will
+   find a usable combiner given an operator and information about whether
+   the combiner should apply component alpha and whether it should be 64

+ bit.
+
+ In pixman-general.c use this function to look up a combiner up front
+ instead of walking the delegate chain for every scanline.
+
+commit ab584ab500b4e7011a5b82051a90e2eea6744270
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 7 17:11:45 2012 -0500
+
+ test/alphamap.c: Make dst and orig_dst more independent of each other
+
+ When making the copy of the destination, do so separately for the
+ image and the alpha map.
This ensures that the alpha channel of the
+ alpha map will be different from the alpha channel of the actual
+ image.
+
+ Previously, orig_dst would be copied onto dst along with its alpha
+ map, which mean that the alpha map of orig_dst would become the new
+ alpha channel of *both* dst and dst's alpha map. This meant that test
+ didn't actually test that the alpha maps alpha channel was actually
+ fetched.
+
+commit 4613f2caac595b3fa1298ac49f9c9fdcd907f14a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 7 16:48:00 2012 -0500
+
+ Fix bugs with alpha maps
+
+ The alpha channel from the alpha map must be inserted as the new alpha
+ channel when a scanline is fetched from an image. Previously the alpha
+ map would overwrite the buffer instead. This wasn't caught be the
+ alpha map test because it would only verify that the resulting alpha
+ channel was correct, and not pay attention to incorrect color
+ channels.
+
+commit
8bd63634cd2b2d92145b1d52b54b91ebcb9fb1b4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 7 14:32:08 2012 -0500
+
+ test: In the alphamap test, also test that we get the right red value
+
+ There is a bug where the red channel of the alpha map of the
+ destination image is used instead of the red channel of the
+ destination image itself.
+
+commit 007d8b1813e34a7f881d9b241806f8323e9667cd

+Author: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Fri Dec 23 16:32:57 2011 -0800
+
+   Make mmx code compatible with Solaris Studio 12.3 compilers
+
+   Rearranged some of the existing gcc & Intel compiler checks to allow
+   easier sharing of common cases among the compilers.
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+
+commit 37572455866114cbb8bb1bf3acfb1c61d200f98c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Dec 20 06:32:26 2011 -0500
+
+   Fix rounding for DIV_UNc()
+
+   We need to
 compute floor (a/b * 255 + 0.5), not floor (a / b * 255),
+   so add b/2 to the numerator in the DIV_UNc() macro.
+
+commit 2437ae80e5066dec9fe52f56b016bf136d7cea06
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Dec 22 11:37:26 2011 -0500
+
+   Reject trapezoids where top (botttom) is above (below) the edges
+
+   When a trapezoid has a top/bottom that is above/below the left/right
+   edges, degenerate trapezoids become possible. For example the edge
+   could be very short and close to horizontal. If the bottom edge is far
+   below the bottom point of such a short edge, the result is that the
+   lower right corner of the trapezoid will be extremely far to the left.
+
+   This kind of trapezoid causes overflows in the rasterization code, so
+   change pixman_trapezoid_valid() to reject them.
+
+commit 6a8192b6dd88b833bb918de28331d3a85c84a4f7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Dec 20 06:34:41 2011 -0500
+
+   In MUL_UNc()
 cast to comp2_t
+
+   Otherwise, when comp1_t is 16 bits wide, we can end up with a signed
+   integer overflow.
+
+commit 33ac0a9084aabd0e47fb1c9e5638eafc809c52cb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Dec 21 08:19:05 2011 -0500

+
+   Fix a bunch of signed overflow issues
+
+   In pixman-fast-path.c: (1 << 31) - 1 causes a signed overflow, so
+   change to (1U << n) - 1.
+
+   In pixman-image.c: The check for whether m10 == -m01 will overflow
+   when -m01 == INT_MIN. Instead just check whether the variables are 1
+   and -1.
+
+   In pixman-utils.c: When the depth of the topmost channel is 0, we can
+   end up shifting by 32.
+
+   In blitters-test.c: Replicating the mask would end up shifting more
+   than 32.
+
+   In region-contains-test.c: Computing the average of two large integers
+   could overflow. Instead add half the difference between them to the
+   first integer.
+
+   In stress-test.c: Masking the value
 in fake_reader() would sometimes
+   shift by 32. Instead just use the most significant bits instead of
+   the least significant.
+
+   All these issues were found by the IOC tool:
+
+   http://embed.cs.utah.edu/ioc/
+
+commit d788f762788c2178970ff0ff2cb6e0097171cc3c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Dec 18 09:54:47 2011 -0500
+
+   Add missing cast in _pixman_edge_multi_init()
+
+   nx and e->dy are both 32 bit quantities, so a cast is needed to make
+   sure their product is 64 bit before subtracting it from a 64 bit
+   quantity.
+
+commit 4f3fe9c9096b2261217c2d4beb7d5eb8e578ed76
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Dec 18 08:16:45 2011 -0500
+
+   Fix some signed overflow bugs
+
+   In the macros for the PDF blend modes, two comp1_t variables are
+   multiplied together and then used as if the result were a
+   comp4_t. When comp1_t is a uint8_t, this is fine because they are

+   promoted to
 int, and the product of two uint8_ts fits in an
+   int. However, when comp1_t is uint16, the product does not necessarily
+   fit in an int, so casts are necessary.
+
+   Fix for bug 43906, reported by Siarhei Siamashka.
+
+commit 3e93bba3b04b42c2ab99d828dae12c18f29bcf7d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jan 5 10:37:51 2012 -0500
+
+   pixman-image.c: Fix typo in pixman_image_set_transform()
+
+   A parenthesis was misplaced so that the size argument to memcmp() was
+   always 0. The bug is harmless except that the flags might be
+   unnecessarily recomputed in some cases.
+
+   A bug reporting this in Mozilla's fork was discovered here:
+
+   https://bugzilla.mozilla.org/show_bug.cgi?id=710992
+
+commit ae651e7e739253f79f345f9fcbacad8627da0d85
+Author: Colin Walters <walters@verbum.org>
+Date: Wed Jan 4 08:06:05 2012 -0500
+
+   autogen.sh: Support GNOME Build API
+
+   http://people.gnome.org/~walters/docs/build-api.txt
+
+commit
 89498a1178bc173857f3d1ee1f889afcc58b21b6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Dec 18 07:29:59 2011 -0500
+
+   gradient-walker: For NONE repeats, when x < 0 or x > 1, set both colors to 0
+
+   ec7c9c2b6865b48b8bd14e4 introduced a bug where NONE gradients would be
+   misrendered, causing the area outside the gradient to be treated as a
+   (very) long fade to transparent.The problem was that a check for
+   positions outside the gradients were dropped in favor of relying on
+   the sentinels.
+
+   Aside from misrendering, this also caused a signed integer overflow
+   when the code would compute a stepper size based on MIN_INT32.
+
+   This patches fixes the issue by reinstating a check for these cases
+   and setting both the right and left colors to transparent black.
+

+commit d0091a33fcdb49b65a6f20f775cfde520380b1fa
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Dec 21 05:19:00 2011 -0500
+
+   Modify gradient-test
 to show a bug in NONE processing
+
+   This patch modifies demos/gradient-test to display a bug in gradients
+   with a repeat mode of NONE. With the current gradient code, the left
+   side will be a solid red (actually an extremely long fade from solid
+   red to transparent) instead of a sharp transition from red to green.
+
+commit 9db980551518a09069b8ade34743238329a36661
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 9 03:59:04 2011 -0500
+
+   region: Add pixman_region{,32}_clear() functions.
+
+   These functions simply reset the region to empty. They are equivalent
+   to
+
+   pixman_region_fini (&region);
+   pixman_region_init (&region);
+
+commit 6b9d6a91ed4a85f27d7e5824ce2a63f37876e937
+Author: Bobby Salazar <bobby8934@gmail.com>
+Date: Tue Dec 13 02:03:16 2011 -0500
+
+   Android Runtime Detection Support For ARM NEON
+
+   This patch adds runtime detection support for the ARM NEON fast paths
+   for
 code compiled with the Android NDK. This is the only code change
+   needed to enable the ARM NEON pixman fast paths for the ever growing
+   Android platform (200 million+ smartphones, tablets, etc.). Just make
+   sure to #define USE_ARM_NEON in your makefile.
+
+commit 84450c411cc93309bb1d1b1f555640b3ad105500
+Author: Naohiro Aota <naota@gentoo.org>
+Date: Thu Nov 24 13:12:15 2011 +0100
+
+   Don't use non-POSIX test
+
+   test "$test_CFLAGS" == "" &&   \
+
+   may cause an error on some POSIX shells and uses a style which is not
+   consistent with the other tests in configure.ac
+

+   Fixes https://bugs.freedesktop.org/show_bug.cgi?id=42588 and
+   https://bugs.gentoo.org/show_bug.cgi?id=387087
+
+commit 9985febd7847b7a9c09d6395db7f89490c83be30
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Nov 8 22:00:46 2011 +0100
+
+   test: Produce autotools-looking report in the win32 build system
+
+   Tweak the commands used to run the tests
 on win32 to make the output
+   look mostly like that produced by the autotools test system.
+
+   In addition to this, make sure that the exit status of the test target
+   is success (0) if and only if no failure occurred.
+
+commit b31da39f6f65d1784fc2f6915c30eb011cc2893b
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Nov 3 11:07:25 2011 +0100
+
+   demos: Consistently use G_N_ELEMENTS()
+
+   Instead of open-coding G_N_ELEMENTS(), just use it.
+
+commit 1662c94348eda19ec35db2625749febd1dceb35e
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Nov 3 10:53:10 2011 +0100
+
+   test: Reuse the ARRAY_LENGTH() macro
+
+   It is provided by utils.h, there is no need to redefine it.
+
+commit 97b9fa090c54f6feab54bde272df374a13c0c84d
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Nov 3 10:51:27 2011 +0100
+
+   Use the ARRAY_LENGTH() macro when possible
+
+   This patch has been generated by the following Coccinelle semantic patch:
+

+   // Use the ARRAY_LENGTH() macro when possible
+   //
+   // Replace open-coded array length computations with the
+   // ARRAY_LENGTH() macro
+
+   @@
+   type T;

```
+    T[] E;
+    @@
+    - (sizeof(E)/sizeof(T))
+    + ARRAY_LENGTH (E)
+
+commit 06760f5cb069bdc041af7a0e73c9d5fc08741f28
+Author: Andrea Canciani <ranma42@gmail.com>
+Date:   Thu Nov 3 10:40:24 2011 +0100
+
+    test: Cleanup includes
+
+    All the tests are linked to libutil, hence it makes sence to always
+    include utils.h and reuse what it provides (config.h inclusion, access
+    to private pixman APIs, ARRAY_LENGTH, ...).
+
+commit cbd88a9416d9b33e6589e3f857ee839559a7e4de
+Author: Andrea Canciani <ranma42@gmail.com>
+Date:   Thu Nov 3 10:21:41 2011 +0100
+
+    Remove useless checks for NULL before freeing
+
+    This patch has been generated by the following Coccinelle semantic patch:
+
+    // Remove useless checks for NULL before freeing
+    //
+    // free (NULL) is a no-op, so there
 is no need to avoid it
+
+    @@
+    expression E;
+    @@
+    + free (E);
+    + E = NULL;
+    - if (unlikely (E != NULL)) {
+    -   free(E);
+    (
+    -   E = NULL;
+    |
+    -   E = 0;
+    )
+       ...
+    - }
+
+    @@
+    expression E;
+    @@
+    + free (E);
+    - if (unlikely (E != NULL)) {
```

+ - free (E);
+ - }
+
+commit 8d72d35b29b0fe0345e21525db9e5f25876364be
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Nov 6 16:36:01 2011 -0500
+
+ Post-release version bump to 0.25.1
+
+commit 973dc7d319f373fc1bbb91ea54e8a7116cfaa932
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Nov 6 16:10:33 2011 -0500
+
+ Pre-release version bump to 0.24.0
+
+commit 6bf590f38577b4c3c6f4876291360ef95086fb37
+Author: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Sun Oct 30 09:12:06 2011 -0700
+
+ Change MMX ldq_u to return _m64 instead of forcing all callers to cast
+
+ Sun/Oracle Studio compilers allow the pointers
to be cast, but not the
+ non-pointer forms, causing pixman compiles to fail with many errors of:
+ "pixman-mmx.c", line 1411: invalid cast expression
+
+ Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+
+commit 5d7f5bc8ee178588194cb6acc2e0ceb6ff926d72
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Wed Nov 2 18:49:58 2011 -0400
+
+ Add definitions of INT64_MIN and INT64_MAX
+
+commit 697cfe15377a8c420764ff824c0a8c2c8ff2148c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Oct 29 05:51:44 2011 -0400
+
+ Post-release version bump to 0.23.9
+
+commit a0f1b565811388b0567c845b9b7063d5b93d325e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Oct 29 05:33:44 2011 -0400
+
+ Pre-release version bump to 0.23.8
+
+commit 498138c293a2abce44ce122114852f4e6c5b87fe
+Author: Søren Sandmann Pedersen <ssp@redhat.com>

+Date: Tue Oct 25 08:45:34 2011 -0400
+
+   Fix use of uninitialized fields reported by valgrind
+
+   In
 pixman-noop.c and pixman-sse2.c, we are accessing
+   image->bits.width/height without first making sure the image is a bits
+   image. The warning is harmless because we never act on this
+   information without checking that the image is a8r8g8b8, but valgrind
+   does warn about it.
+
+   In pixman-noop.c, just reorder the clauses in the if statement; in
+   pixman-sse2.c require images to have the FAST_PATH_BITS_IMAGE flag
+   set.
+
+commit 6131707e8fc39187d1d358481f7c57c57cfab206
+Merge: 3d4d705 ec7c9c2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Oct 20 09:13:12 2011 -0400
+
+   Merge branch 'gradients'
+
+commit 3d4d705d2ffa4aeab3dc02a23c2aadbea1374a3f
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Tue Oct 18 21:50:18 2011 +0900
+
+   ARM: NEON: Fix assembly typo error in src_n_8_8888
+
+   Binutils 2.21 does not complain about missing comma between ARM
+   register and alignement specifier in vld/vst instructions which
+   causes build
 error on binutils 2.20.
+
+commit 19f118f41f8725f22395d31eac5670cb350b55ec
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Mon Sep 26 18:33:27 2011 +0900
+
+   ARM: NEON: Standard fast path src_n_8_8
+
+   Performance numbers of before/after on cortex-a8 @ 1GHz
+
+   - before
+   L1: 28.05 L2: 28.26 M: 26.97 (4.48%) HT: 19.79 VT: 19.14 R: 17.61 RT: 9.88 (101Kops/s)
+
+   - after
+   L1:1430.28 L2:1252.10 M:421.93 (75.48%) HT:170.16 VT:138.03 R:145.86 RT: 35.51 (255Kops/s)
+
+commit 4db9e2bc13d3ed26416f249e57acec4b41f58b7f

+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Mon Sep 26 17:03:54 2011 +0900
+
+   ARM: NEON: Standard fast path src_n_8_8888
+
+   Performance numbers of before/after on cortex-a8 @ 1GHz
+
+   - before
+   L1: 32.39 L2: 31.79 M: 30.84 (13.77%) HT: 21.58 VT: 19.75 R: 18.83 RT: 10.46 (106Kops/s)
+
+   - after
+   L1: 516.25 L2: 372.00 M:193.49 (85.59%) HT:136.93 VT:109.10 R:104.48 RT:
 34.77 (253Kops/s)
+
+commit 26659de6cd2775c83a9a6e6660324d5baacf61f9
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Mon Sep 26 19:04:53 2011 +0900
+
+   ARM: NEON: Instruction scheduling of bilinear over_8888_8_8888
+
+   Instructions are reordered to eliminate pipeline stalls and get
+   better memory access.
+
+   Performance of before/after on cortex-a8 @ 1GHz
+
+   << 2000 x 2000 with scale factor close to 1.x >>
+   before : 40.53 Mpix/s
+   after : 50.76 Mpix/s
+
+commit 4481920f405e47b3a92811a8cb06afbd37dee01b
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Sep 21 15:52:13 2011 +0900
+
+   ARM: NEON: Instruction scheduling of bilinear over_8888_8888
+
+   Instructions are reordered to eliminate pipeline stalls and get
+   better memory access.
+
+   Performance of before/after on cortex-a8 @ 1GHz
+
+   << 2000 x 2000 with scale factor close to 1.x >>
+   before : 50.43 Mpix/s
+   after : 61.09 Mpix/s
+
+commit 1cd916f3a5ebeb943f66eecf0b8ce99af0b95d11
+Author:
 Taekyun Kim <tkq.kim@samsung.com>
+Date: Fri Sep 23 00:03:22 2011 +0900

+
+   ARM: NEON: Replace old bilinear scanline generator with new template
+
+   Bilinear scanline functions in pixman-arm-neon-asm-bilinear.S can
+   be replaced with new template just by wrapping existing macros.
+
+commit 6682b2b3597c9f431900bfe7b1b42dfbe006bae5
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Tue Sep 20 21:32:35 2011 +0900
+
+   ARM: NEON: Bilinear macro template for instruction scheduling
+
+   This macro template takes 6 code blocks.
+
+   1. process_last_pixel
+   2. process_two_pixels
+   3. process_four_pixels
+   4. process_pixblock_head
+   5. process_pixblock_tail
+   6. process_pixblock_tail_head
+
+   process_last_pixel does not need to update horizontal weight. This
+   is done by the template. two and four code block should update
+   horizontal weight inside of them. head/tail/tail_head blocks
+   consist unrolled
 core loop. You can apply instruction scheduling
+   to the tail_head blocks.
+
+   You can also specify size of the pixel block. Supported size is 4
+   and 8. If you want to use mask, give BILINEAR_FLAG_USE_MASK flags
+   to the template, then you can use register MASK. When using d8~d15
+   registers, give BILINEAR_FLAG_USE_ALL_NEON_REGS to make sure
+   registers are properly saved on the stack and later restored.
+
+commit b5e4355fa4973e3edd4abeb11bdc47c42371cc76
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Tue Sep 20 19:46:25 2011 +0900
+
+   ARM: NEON: Some cleanup of bilinear scanline functions
+
+   Use STRIDE and initial horizontal weight update is done before
+   entering interpolation loop. Cache preload for mask and dst.
+
+commit ec7c9c2b6865b48b8bd14e4509538f8fcbe93463
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 14 09:04:48 2011 -0400
+
+   Simplify gradient_walker_reset()

+
+   The code that searches for the closest
 color stop to the given
+   position is duplicated across the various repeat modes. Replace the
+   switch with two if/else constructions, and put the search code between
+   them.
+
+commit 2d0da8ab8d8fef60ed1bbb9d6b75f66577c3f85d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 14 09:02:14 2011 -0400
+
+   Use sentinels instead of special casing first and last stops
+
+   When storing the gradient stops internally, allocate two more stops,
+   one before the beginning of the stop list and one after the
+   end. Initialize those stops based on the repeat property of the
+   gradient.
+
+   This allows gradient_walker_reset() to be simplified because it can
+   now simply pick the two closest stops to the position without special
+   casing the first and last stops.
+
+commit 84d6ca7c891601b019d4862a556ed98b7e6fe525
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 14 07:42:00 2011 -0400
+
+   gradient walker: Correct types and fix
 formatting
+
+   The type of pos in gradient_walker_reset() and gradient_walker_pixel()
+   is pixman_fixed_48_16_t and not pixman_fixed_32_32. The types of the
+   positions in the walker struct are pixman_fixed_t and not int32_t, and
+   need_reset is a boolean, not an integer. The spread field should be
+   called repeat and have the type pixman_repeat_t.
+
+   Also fix some formatting issues, make gradient_walker_reset() static,
+   and delete the pointless PIXMAN_GRADIENT_WALKER_NEED_RESET() macro.
+
+commit ace225b53dee88d134753ac901f26ba3db6781da
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Oct 11 16:12:24 2011 -0400
+
+   Add stable release / development snapshot to draft release notes
+
+   This will hopefully serve as a reminder to me that I should put this
+   information in the release notes.
+
+commit bb7142d361d56d66ac40debb60a7c4d099764ba8

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Oct 11 06:10:39 2011 -0400
+
+
   Post-release version bump to 0.23.7
+
+commit e20ac40bd30484f0f711b52d0c1993ef08760284
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Oct 11 06:00:51 2011 -0400
+
+   Pre-release version bump to 0.23.6
+
+commit a43946a51fbbdc76be1af9bc25fe7c5c2a6314bb
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Thu Sep 22 18:42:38 2011 +0900
+
+   Simple repeat: Extend too short source scanlines into temporary buffer
+
+   Too short scanlines can cause repeat handling overhead and optimized
+   pixman composite functions usually process a bunch of pixels in a
+   single loop iteration it might be beneficial to pre-extend source
+   scanlines. The temporary buffers will usually reside in cache, so
+   accessing them should be quite efficient.
+
+commit eaff774a3f8af6651a245711b9ab8af3211eeb10
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Mon Aug 29 21:44:36 2011 +0900
+
+   Simple repeat fast path
+
+   We can implement simple repeat by stitching existing
 fast path
+   functions. First lookup COVER_CLIP function for given input and
+   then stitch horizontally using the function.
+
+commit a258e33fcb6cf08a2ef76e374cb92a12c9adb171
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Thu Sep 22 16:33:02 2011 +0900
+
+   Move _pixman_lookup_composite_function() to pixman-utils.c
+
+commit fc62785aabbe890b656c9cbaa57f2e65e74bbcc2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jun 27 21:17:04 2011 +0000
+
+   Add src, mask, and dest flags to the composite args struct.
+
+   These flags are useful in the various compositing routines, and the

+ flags stored in the image structs are missing some bits of information
+ that can only be computed when pixman_image_composite() is called.
+
+commit fa6523d13ae9b7986bb890df5ad66e8599bc3ed8
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Thu Sep 22 16:26:55 2011 +0900
+
+ Add new fast path flag FAST_PATH_BITS_IMAGE
+
+ This fast path flag indicate that
type of the image is bits image.
+
+commit 7272e2fcd2ff8e546cef19929cd370ae2f946135
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Thu Sep 22 16:20:03 2011 +0900
+
+ init/fini functions for pixman_image_t
+
+ pixman_image_t itself can be on stack or heap. So segregating
+ init/fini from create/unref can be useful when we want to use
+ pixman_image_t on stack or other memory.
+
+commit 4dcf1b0107334857e1f0bb203c34efed1146535c
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Sep 7 23:00:29 2011 +0900
+
+ sse2: Bilinear scaled over_8888_8_8888
+
+commit 81050f2784407b260a1897efa921631a19eeec6b
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Sep 7 22:57:29 2011 +0900
+
+ sse2: Bilinear scaled over_8888_8888
+
+commit d67c0b883daeeaacf3f21f1ddbdcf9ecf94fac43
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Sep 7 22:51:46 2011 +0900
+
+ sse2: Macros for assembling bilinear interpolation code fractions
+
+ Primitive bilinear interpolation
code is reusable to implement other
+ bilinear functions.
+
+ BILINEAR_DECLARE_VARIABLES
+ - Declare variables needed to interpolate src pixels.
+
+ BILINEAR_INTERPOLATE_ONE_PIXEL

+   - Interpolate one pixel and advance to next pixel
+
+   BILINEAR_SKIP_ONE_PIXEL
+   - Skip interpolation and just advance to next pixel
+   This is useful for skipping zero mask
+
+commit 741eb8462c3ff72cbf2d9acfeb1e97208a414fcd
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu Oct 6 17:56:09 2011 -0400
+
+   Correct the minimum gcc version needed for iwmmxt
+
+   Spotted by Søren Sandmann.
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 0a34277180d29f471a2554afc2e2b682fee33c79
+Author: Matt Turner <mattst88@gmail.com>
+Date: Wed Oct 5 22:54:36 2011 -0400
+
+   Make sure iwMMXt is only detected on ARM
+
+   iwMMXt is incorrectly detected on x86 and amd64. This happens because
+   the test uses standard _mm_* intrinsic functions which
 it compiles with
+   -march=iwmmxt, but when the user has set CFLAGS=-march=k8 for instance,
+   no error is generated from -march=iwmmxt, even though it's not a valid
+   flag on x86/amd64. Passing CFLAGS=-march=native does not override the
+   -march=iwmmxt flag though, which is why it wasn't noticed before.
+
+   So, just #error out in the test if the __arm__ preprocessor directive
+   isn't defined.
+
+   Fixes https://bugs.gentoo.org/show_bug.cgi?id=385179
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 879b7c21e45b092272e689e05dc867f6260e258f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 27 11:32:13 2011 -0400
+
+   Don't include stdint.h in scaling-helpers-test.
+
+   Fixes bug 41257.
+
+commit 01c2dcbe6936a868651160d2617d783d5b8d3d7d
+Author: Benjamin Otte <otte@redhat.com>
+Date: Wed Sep 14 17:52:03 2011 +0200

+
+ build: replace @VAR@ with $(VAR) in makefiles
+
+commit 100f16eae94a54fbb9ee1f44fa3c34602ba25c4d
+Author:
Benjamin Otte <otte@redhat.com>
+Date: Wed Sep 14 17:01:51 2011 +0200
+
+ tests: Add PNG_CFLAGS/LIBS to tests
+
+ PNG flags were accidentally included by gdk-pixbuf. This has been fixed
+ recently, so we need to make sure to include it ourselves.
+
+commit d1313febbec2124ee175cd323a338caa3c1a8fc2
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu Sep 22 15:28:00 2011 -0400
+
+ mmx: optimize unaligned 64-bit ARM/iwmmxt loads
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 7ab94c5f99cc524ddfbbcedca4304ec7943f74e1
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun Jul 31 22:42:24 2011 -0400
+
+ mmx: compile on ARM for iwmmxt optimizations
+
+ Check in configure for at least gcc-4.6, since gcc-4.7 (and hopefully
+ 4.6) will be the eariest version capable of compiling the _mm_*
+ intrinsics on ARM/iwmmxt. Even for suitable compile versions I use
+ _mm_srli_si64 which is known to cause unpatched compilers to fail.
+

+ Select iwmmxt at runtime only after NEON, since we expect the NEON
+ optimizations to be more capable and faster than iwmmxt.
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit f66887d9eae9646c838d518020168b1403705b1e
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun Sep 4 14:11:46 2011 -0400
+
+ mmx: prepare pixman-mmx.c to be compiled for ARM/iwmmxt
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 7c6d5d1999989187b60f1e0e82e55ed55238eb27
+Author: Matt Turner <mattst88@gmail.com>

+Date: Thu Sep 8 20:33:45 2011 +0200
+
+   mmx: fix unaligned accesses
+
+   Simply return *p in the unaligned access functions, since alignment
+   constraints are very relaxed on x86 and this allows us to generate
+   identical code as before.
+
+   Tested with the test suite, lowlevel-blit-test, and cairo-perf-trace on
+   ARM and Alpha with no unaligned accesses found.
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit
 5d98abb14ca9042af6d0ec7c14c8398cf4046b80
+Author: Matt Turner <mattst88@gmail.com>
+Date: Thu Sep 22 15:39:53 2011 -0400
+
+   mmx: wrap x86/MMX inline assembly in ifdef USE_X86_MMX
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 02c1f1a022e86ced69fc91376232d75d5d6583c5
+Author: Matt Turner <mattst88@gmail.com>
+Date: Sun Jul 31 20:20:12 2011 +0000
+
+   mmx: rename USE_MMX to USE_X86_MMX
+
+   This will make upcoming ARM usage of pixman-mmx.c unambiguous.
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 57fd8c37aa3148b1d70bad65e1a49721e9a47d7e
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Sep 23 14:10:52 2011 -0400
+
+   mmx: convert while (w) to if (w) when possible
+
+   gcc isn't able to see that w is no greater than 1, so it generates
+   unnecessary loop instructions with while (w).
+
+   Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 38a7aae1d9c8e1e41de22f9c3846dfc975af6838
+Author: Matt
 Turner <mattst88@gmail.com>
+Date: Fri Sep 9 15:33:14 2011 +0200
+

+ mmx: fix formats in commented code
+
+ b8r8g8 is apparently no longer supported sometime since this code was
+ commented.
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit b6b77488a0259da3662edf68568e78806ca97444
+Author: Matt Turner <mattst88@gmail.com>
+Date: Fri Sep 9 15:34:04 2011 +0200
+
+ lowlevel-blt: add over_x888_8_8888
+
+ Signed-off-by: Matt Turner <mattst88@gmail.com>
+
+commit 9126f36b964c71b83c69235df4c3a46ab81ab5d5
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sun May 22 22:51:00 2011 +0300
+
+ BILINEAR->NEAREST filter optimization for simple rotation and translation
+
+ Simple rotation and translation are the additional cases when BILINEAR
+ filter can be safely reduced to NEAREST.
+
+commit ad5c6bbb36c1c5e72313f7c7bc7c6e6b7e79daba
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 4 02:53:39 2011 -0400
+
+
  Strength-reduce BILINEAR filter to NEAREST filter for identity transforms
+
+ An image with a bilinear filter and an identity transform is
+ equivalent to one with a nearest filter, so there is no reason the
+ standard fast paths shouldn't be usable.
+
+ But because a BILINEAR filter samples a 2x2 pixel block in the source
+ image, FAST_PATH_SAMPLES_COVER_CLIP can't be set in the case where the
+ source area is the entire image, because some compositing operations
+ might then read pixels outside the image.
+
+ This patch fixes the problem by splitting the
+ FAST_PATH_SAMPLES_COVER_CLIP flag into two separate flags
+ FAST_PATH_SAMPLES_COVER_CLIP_NEAREST and
+ FAST_PATH_SAMPLES_COVER_CLIP_BILINEAR that indicate that the clip
+ covers the samples taking into account NEAREST/BILINEAR filters
+ respectively.
+
+ All the existing compositing operations that require

+ FAST_PATH_SAMPLES_COVER_CLIP then have their flags modified to
pick
+ either COVER_CLIP_NEAREST or COVER_CLIP_BILINEAR depending on which
+ filter they depend on.
+
+ In compute_image_info() both COVER_CILP_NEAREST and
+ COVER_CLIP_BILINEAR can be set depending on how much room there is
+ around the clip rectangle.
+
+ Finally, images with an identity transform and a bilinear filter get
+ FAST_PATH_NEAREST_FILTER set as well as FAST_PATH_BILINEAR_FILTER.
+
+ Performance measurementas with render_bench against Xephyr:
+
+ Before
+
+ *** ROUND 1 ***
+ --
+ Test: Test Xrender doing non-scaled Over blends
+ Time: 5.720 sec.
+ --
+ Test: Test Xrender (offscreen) doing non-scaled Over blends
+ Time: 5.149 sec.
+ --
+ Test: Test Imlib2 doing non-scaled Over blends
+ Time: 6.237 sec.
+
+ After:
+

+ *** ROUND 1 ***
+ --
+ Test: Test Xrender doing non-scaled Over blends
+ Time: 4.947 sec.
+ --
+ Test: Test Xrender (offscreen) doing non-scaled Over blends
+ Time: 4.487 sec.
+ --
+ Test: Test Imlib2 doing non-scaled Over blends
+ Time: 6.235 sec.
+
+commit eb2e7ed81b324af730c1a7639c9ca9ed60152875
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Sep 5 14:43:25 2011 -0400
+
+ test: Occasionally use a BILINEAR filter in blitters-test
+
+ To test that reductions of BILINEAR->NEAREST for identity

+   transformations happen correctly, occasionally use a bilinear filter
+   in blitters test.
+
+commit 2a9f88430e7088eccfbbbd6c6b4f4e534126b1e1
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sun May 22 22:16:38 2011 +0300
+
+
 test: better coverage for BILINEAR->NEAREST filter optimization
+
+   The upcoming optimization which is going to be able to replace BILINEAR filter
+   with NEAREST where appropriate needs to analyze the transformation matrix
+   and not to make any mistakes.
+
+   The changes to affine-test include:
+   1. Higher chance of using the same scale factor for x and y axes. This can help
+   to stress some special cases (for example the case when both x and y scale
+   factors are integer). The same applies to x/y translation.
+   2. Introduced a small chance for "corrupting" transformation matrix by flipping
+   random bits. This supposedly can help to identify the cases when some of the
+   fast paths or other code logic is wrongly activated due to insufficient checks.
+
+commit 054922e2fce1f8d9db4b9b756e54b0fa5655956d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Sep 5 00:19:51 2011 -0400
+
+   Eliminate compute_sample_extents() function
+

+   In analyze_extents(), instead of calling compute_sample_extents() call
+   compute_transformed_extents() and inline the remaining part of
+   compute_sample_extents(). The upcoming bilinear->nearest optimization
+   will do something different with these two pieces of code.
+
+commit 577b6c46fd39c43c2c328fed48854b50b9e85e5b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 4 17:43:29 2011 -0400
+
+   Split computation of sample area into own function
+
+   compute_sample_extents() have two parts: one that computes the
+   transformed extents, and one that checks whether the computed extents
+   fit within the 16.16 coordinate space.
+
+   Split the first part into its own function
+   compute_transformed_extents().
+
+commit 5064f1803136cbc28d1e9f636feb2ff8ccfbdded

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 4 17:17:53 2011 -0400
+
+   Remove x and y coordinates from analyze_extents() and compute_sample_extents()
+

+   These coordinates were only ever used for subtracting from the extents
+   box to put it into the coordinate space of the image, so we might as
+   well do this coordinate translation only once before entering the
+   functions.
+
+commit dbcb4af60d8c688eaaa027c3c5bce9527a410465
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Aug 16 06:13:59 2011 -0400
+
+   Use MAKE_ACCESSORS() to generate accessors for paletted formats
+
+   Add support in convert_pixel_from_a8r8g8b8() and
+   convert_pixel_to_a8r8g8b8() for conversion to/from paletted formats,
+   then use MAKE_ACCESSORS() to generate accessors for the indexed
+   formats: c8, g8, g4, c4, g1
+
+commit c82c2c38538f5c3f25cf81ad697040d2332d64de
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun May 30 12:36:58 2010 -0400
+
+   Use MAKE_ACCESSORS() to generate accessors for the a1 format.
+
+   Add FETCH_1 and STORE_1 macros and use them to add support for 1bpp
+   pixels to fetch_and_convert_pixel()
 and convert_and_store_pixel(),
+   then use MAKE_ACCESSORS() to generate the accessors for the a1
+   format. (Not the g1 format as it is indexed).
+
+commit 2114dd8aa1f292541e55b6b84152732b37c1c1eb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Aug 16 14:38:44 2011 -0400
+
+   Use MAKE_ACCESSORS() to generate accessors for 24bpp formats
+
+   Add FETCH_24 and STORE_24 macros and use them to add support for 24bpp
+   pixels in fetch_and_convert_pixel() and
+   convert_and_store_pixel(). Then use MAKE_ACCESSORS() to generate
+   accessors for the 24 bpp formats:
+
+   r8g8b8
+   b8g8r8
+

+commit f19f5daa1b111368bcf75435dce12483e08756f2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Aug 18 05:09:07 2011 -0400
+
+   Use MAKE_ACCESSORS() to generate accessors for 4 bpp RGB formats
+
+   Use FETCH_4 and STORE_4 macros to add support for 4bpp pixels to
+   fetch_and_convert_pixel() and convert_and_store_pixel(),
 then use
+   MAKE_ACCESSORS() to generate accessors for 4 bpp formats, except g4 and
+   c4 which are indexed:
+
+   a4
+   r1g2b1
+   b1g2r1
+   a1r1g1b1
+   a1b1g1r1
+
+commit af78fe24e41c30b5c9b3da4449813c75f760c845
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Aug 18 08:13:58 2011 -0400
+
+   Use MAKE_ACCESSORS() to generate accessors for 8bpp RGB formats
+
+   Add support for 8 bpp formats to fetch_and_convert_pixel() and
+   convert_and_store_pixel(), then use MAKE_ACCESSORS() to generate the
+   accessors for all the 8 bpp formats, except g8 and c8, which are
+   indexed:
+
+   a8
+   r3g3b2
+   b2g3r3
+   a2r2g2b2
+   a2b2g2r2
+   x4a4
+
+commit 5e1b9f897532ac0fa220880bf94dd660c837afe9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Aug 18 08:13:44 2011 -0400
+
+   Use MAKE_ACCESSORS() to generate accessors for all the 16bpp formats
+
+   Add support for 16bpp pixels
 to fetch_and_convert_pixel() and
+   convert_and_store_pixel(), then use MAKE_ACCESSORS() to generate
+   accessors for all the 16bpp formats:
+
+   r5g6b5

+ b5g6r5
+ a1r5g5b5
+ x1r5g5b5
+ a1b5g5r5
+ x1b5g5r5
+ a4r4g4b4
+ x4r4g4b4
+ a4b4g4r4
+ x4b4g4r4
+
+commit a77597bcb8d10afd66980b8db8839049181b3743
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Aug 18 08:13:30 2011 -0400
+
+ Use MAKE_ACCESSORS() to generate all the 32 bit accessors
+
+ Add support for 32bpp formats in fetch_and_convert_pixel() and
+ convert_and_store_pixel(), then use MAKE_ACCESSORS() to generate
+ accessors for all the 32 bpp formats:
+
+ a8r8g8b8
+ x8r8g8b8
+ a8b8g8r8
+ x8b8g8r8
+ x14r6g6b6
+ b8g8r8a8
+ b8g8r8x8
+ r8g8b8x8
+ r8g8b8a8
+
+commit 814af33df3e9892e4fc790c7ccd2702ce2b8ea97
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed
Aug 17 17:27:58 2011 -0400
+
+ Add initial version of the MAKE_ACCESSORS() macro
+
+ This macro will eventually allow the fetchers and storers to be
+ generated automatically. For now, it's just a skeleton that doesn't
+ actually do anything.
+
+commit 5cae7a3fe6e148d2bb42b86efb7daf27dbf12ee0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 15 18:42:38 2011 -0400
+
+ Add general pixel converter
+
+ This function can convert between any <= 32 bpp formats. Nothing uses

+ it yet.
+
+commit 22f54dde6bbf87251a0b4ad93bacbdaa7cb508d8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 15 10:22:05 2011 -0400
+
+ Add a generic unorm_to_unorm() conversion utility
+
+ This function can convert between normalized numbers of different
+ depths. When converting to higher bit depths, it will replicate the
+ existing bits, when converting to lower bit depths, it will simply
+ truncate.
+
+ This function replaces
the expand16() function in pixman-utils.c
+
+commit d842669a467be490bb0a40000d0c0fccea0b1b85
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Sep 19 09:08:33 2011 -0400
+
+ A few tweaks to a comment in pixman-combine.c.template
+
+ Include a link to
+
+ http://marc.info/?l=xfree-render&m=99792000027857&w=2
+
+ where Keith explains how the disjoint/conjoint operators work.
+
+commit 3432e1a3444a55f71e294da7d350957a8e1232c3
+Author: Jon TURNEY <jon.turney@dronecode.org.uk>
+Date: Mon Sep 19 06:17:58 2011 -0400
+
+ Fix build on cygwin after commit efdf65c0c4fff551fb3cd9104deda9adb6261e22
+
+ libutils depends on pixman and so needs to preceed it in the link order
+
+ Found by tinderbox, see [1]
+
+ [1] http://tinderbox.freedesktop.org/builds/2011-09-15-0005/logs/pixman/#build
+
+ Signed-off-by: Jon TURNEY <jon.turney at dronecode.org.uk>
+
+commit f9faf4df440366ed36b197dc09b1c2b51af3387b
+Author: Søren Sandmann Pedersen
<ssp@redhat.com>
+Date: Mon Sep 12 23:17:39 2011 -0400
+
+ test: Use smaller boxes in region_contains_test()

+
+   The boxes used region_contains_test() sometimes overflow causing
+
+   *** BUG ***
+   In pixman_region32_union_rect: Invalid rectangle passed
+   Set a breakpoint on '_pixman_log_error' to debug
+
+   messages to be printed when pixman is compiled with DEBUG. Fix this by
+   dividing the x, y, w, h coordinates by 4 to prevent overflows.
+
+commit 9623b478f7e872af36ca77af5cc9e85f5ea132cf
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Sep 4 21:33:05 2011 +0200
+
+   build-win32: Add 'check' target
+
+   On win32 the tests are built but they are not run automatically by the
+   build system.
+
+   A minimal 'check' target (depending on the tests being built) can
+   simply run them and log to the console their success/failure.
+
+commit 479d0944851fffda7ed860523feb388fec028545
+Author: Andrea Canciani <ranma42@gmail.com>
+Date:
  Sun Sep 4 13:52:53 2011 -0700
+
+   test: Do not include config.h unless HAVE_CONFIG_H is defined
+
+   The win32 build system does not generate config.h and correctly runs
+   the compiler without defining HAVE_CONFIG_H. Nevertheless some files
+   include config.h without checking for its availability, breaking the
+   build from a clean directory:
+
+   test\utils.h(2) : fatal error C1083: Cannot open include file:
+   'config.h': No such file or directory
+   ...
+
+commit d46a9f3acef21b50639c64f190a0de7eca21747c
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Sep 4 21:56:20 2011 +0200
+
+   build-win32: Add root Makefile.win32
+
+   Add Makefile.win32 to the pixman root. This makefile can recursively
+   run the other ones to compile the library or the test suite.
+
+commit a76b78c2daa61900572014070d3e856a460fd554

+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Sep 4 18:00:38 2011 +0200
+
+   build-win32: Share targets and
 variables across win32 makefiles
+
+   The win32 build system repeatedly defines some basic variables
+   (notably program names and flags) and C sources compilation rules.
+
+   They can be factored out to a common Makefile, to be included in every
+   other Makefile.win32.
+
+commit efdf65c0c4fff551fb3cd9104deda9adb6261e22
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Sep 4 20:07:42 2011 +0200
+
+   build: Reuse test sources
+
+   Makefile.am and Makefile.win32 should not duplicate content, as this
+   leads to breaking the build when they are not kept in sync.
+
+   This can be avoided by listing sources, headers and common build
+   variables/rules in a Makefile.sources file.
+
+   In order to further simplify the test makefiles, the utility functions
+   are now in a static library, which gets linked to all the tests and
+   benchmarks.
+
+commit a4f95d083b1aa644923d79e7b61df6c2eacca7c2
+Author: Andrea Canciani <ranma42@gmail.com>
+Date:
  Sun Sep 4 09:41:41 2011 -0700
+
+   build: Reuse sources and pixman-combine build rules
+
+   Makefile.am and Makefile.win32 should not duplicate content, as this
+   leads to breaking the build when they are not kept in sync.
+
+   This can be avoided by listing sources, headers and common build
+   variables/rules in a Makefile.sources file.
+
+commit 25bd96a3d0e935646d54c938bf065696d3a79e07
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Sep 4 20:07:57 2011 +0200
+
+   test: Fix compilation on win32
+
+   Adding scaling-helpers-test to the testsuite on win32 makes MSVC

+   complain about int64_t being used as an expression:
+
+   scaling-helpers-test.c(27) : error C2275: 'int64_t' : illegal use of
+   this type as an expression
+
+commit 9882d832f60419094c0b379b88fa344490ea36eb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 11 19:44:06 2011 -0400
+
+   Use pkg-config to determine the flags to use with libpng
+
+   Previously
 we would unconditionally link with -lpng leading to build
+   failures on systems without libpng.
+
+commit 99a53667da3014a463b8a0e2b6c317efe0ebb220
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 22 05:20:36 2011 -0500
+
+   test: New function to save a pixman image to .png
+
+   When debugging it is often very useful to be able to save an image as
+   a png file. This commit adds a function "write_png()" that does that.
+
+   If libpng is not available, then the function becomes a noop.
+
+commit 1e1ae0bf6e9dd2189133539b9c34a0f6826b7393
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Sep 9 23:59:20 2011 -0400
+
+   Post-release version bump to 0.23.5
+
+commit f901e3b58b5d710cf136af89fc7395942bea9dfb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Sep 9 23:51:11 2011 -0400
+
+   Pre-release version bump to 0.23.4
+
+commit f5da52b6774bdefdfa88a28fdc3904797adb7e26
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date:
  Mon Aug 22 15:29:25 2011 +0100
+
+   bits: optimise fetching width==1 repeats
+
+   Profiling ign.com, 20% of the entire render time was absorbed in this
+   single operation:
+

```
+    << /content //COLOR_ALPHA /width 480 /height 800 >> surface context
+    << /width 1 /height 677 /format //ARGB32 /source
<|!!!@jGb!m5gD']#$jFHGWtZcK&2i)Up=!TuR9`G<8;ZQp[FQk;emL9ibhbEL&NTh-
j63LhHo$E=mSG,0p71`cRJHcget4%<S\X+~> >> image pattern
+      //EXTEND_REPEAT set-extend
+      set-source
+    n 0 0 480 677 rectangle
+    fill+
+    pop
+
+    which is a simple composition of a single pixel wide image. Sadly this
+    is a workaround for lack of independent repeat-x/y handling in cairo and
+    pixman. Worse still is that the worst-case behaviour of the general repeat
+    path is for width 1 images...
+
+    Signed-off-by: Chris Wilson <chris@chris-wilson.co.uk>
+
+commit 7ef44cae6ba6d1c2aae94cdc10851fa8d14821f7
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date:   Fri Aug
 19 21:20:08 2011 +0900
+
+    ARM: NEON better instruction scheduling of over_n_8888
+
+    New head, tail, tail/head blocks are added and instructions
+    are reordered to eliminate pipeline stalls
+
+    Performance numbers of before/after
+
+    - cortex a8 -
+    before : L1: 375.39  L2: 391.93  M:114.39 ( 40.99%)  HT: 99.37  VT: 98.20  R: 90.24  RT: 32.87 ( 240Kops/s)
+    after  : L1: 481.90  L2: 483.46  M:114.29 ( 40.69%)  HT:106.91  VT: 93.38  R: 90.74  RT: 29.51 ( 236Kops/s)
+
+    - cortex a9 -
+    before : L1: 324.50  L2: 332.79  M:155.55 ( 47.51%)  HT:111.93  VT: 93.58  R: 71.92  RT: 28.21 ( 233Kops/s)
+    after  : L1: 355.87  L2: 364.49  M:156.90 ( 47.59%)  HT:111.52  VT: 91.76  R: 72.16  RT: 28.22 ( 234Kops/s)
+
+commit 6aa82b7a729ae7f0a26ae5a7c08ac74ebd5051cd
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date:   Tue Aug 23 15:00:11 2011 +0900
+
+    ARM: NEON better instruction scheduling of over_n_8_8888
+
+    tail/head block is expanded and reordered
 to eliminate stalls
+
+    Performance numbers of before/after
+
```

+   - cortex a8 -
+   before : L1: 201.35 L2: 190.48 M:101.94 (54.85%) HT: 78.41 VT: 63.83 R: 58.25 RT: 21.74 (191Kops/s)
+   after : L1: 257.65 L2: 255.49 M:102.04 (55.33%) HT: 79.19 VT: 65.46 R: 59.23 RT: 21.12 (189Kops/s)
+
+   - cortex a9 -
+   before : L1: 157.35 L2: 159.81 M:133.00 (60.94%) HT: 82.44 VT: 63.64 R: 51.66 RT: 19.15 (179Kops/s)
+   after : L1: 216.83 L2: 219.40 M:135.83 (61.80%) HT: 85.60 VT: 64.80 R: 52.23 RT: 19.16 (179Kops/s)
+
+commit 4ffa077487cb71ab17d12c37d298ca8a17e5bf35
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sat Aug 13 16:18:17 2011 +0200
+
+   Workaround bug in llvm-gcc
+
+   llvm-gcc (shipped in Apple XCode 4.1.1 as the default compiler or in
+   the 2.9 release of LLVM) performs an invalid optimization which
+   unifies the empty_region and the bad_region structures because they
+   have the same content.
+
+
    A bugreport has been filed against Apple Developers Tool for this
+   issue. This commit works around this bug by making one of the two
+   structures volatile, so that it cannot be merged.
+
+   Fixes region-contains-test.
+
+commit a1ebff0dcbb52cd9eba2bf953b3ba251df6dd787
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Jun 29 14:14:38 2011 +0200
+
+   win32: Build benchmarks
+
+   Add the makefile rules needed to compile lowlevel-blt-bench on win32
+   and fix the compilation errors.
+
+commit 2644d5a947ad82a82e914acf72bbb411097a4bae
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 11 17:09:34 2011 -0500
+
+   Move bilinear interpolation to pixman-inlines.h
+
+commit 12ad42dd32240f08708eddb157a6b23904ae39a7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 11 16:09:21 2011 -0500
+
+   Use repeat() function from pixman-inlines.h in pixman-bits-image.c
+
+   The repeat() functionality was duplicated between pixman-bits-image.c

+
  and pixman-inlines.h
+
+commit 2f443466bb9b8901f658e30c606ddacc4fed8535
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 11 16:07:24 2011 -0500
+
+   Rename pixman-fast-path.h to pixman-inlines.h
+
+   It is not really specific to pixman-fast-path.c.
+
+commit e58b208958900803f74d5e20c855bcb14752d976
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Aug 11 06:30:43 2011 -0400
+
+   In pixman_image_create_bits() allow images larger than 2GB
+
+   There is no reason for pixman_image_create_bits() to check that the
+   image size fits in int32_t. The correct check is against size_t since
+   that is what the argument to calloc() is.
+
+   This patch fixes this by adding a new _pixman_multiply_overflows_size()
+   and using it in create_bits(). Also prepend an underscore to the names
+   of other similar functions since they are internal to pixman.
+
+   V2: Use int, not ssize_t for the arguments in create_bits() since
+
  width/height are still limited to 32 bits, as pointed out by Chris
+   Wilson.
+
+commit bdfb5944ffd460631c082e560c89a6c9830b37de
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 8 10:18:07 2011 -0400
+
+   Don't include stdint.h in lowlevel-blt-bench.c
+
+   Some systems don't have the file, and the types are already defined in
+   pixman.h.
+
+   https://bugs.freedesktop.org//show_bug.cgi?id=37422
+
+commit e5d85ce6629c84b9dad5a9c76bd9f895157c5a74
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Aug 2 03:03:48 2011 -0400
+
+   Use find_box_for_y() in pixman_region_contains_point() too
+
+   The same binary search from the previous commit can be used in this

+ function too.
+
+ V2: Remove check from loop that is not needed anymore, pointed out by
+ Andrea Canciani.
+
+commit 04bd4bdca622f060d7d39caddeaa495d3e6eb0cb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 1 22:32:09 2011 -0400
+
+ Speed
up pixman_region{,32}_contains_rectangle()
+
+ When someone selects some text in Firefox under a non-composited X
+ server and initiates a drag, a shaped window is created with a complex
+ shape corresponding to the outline of the text. Then, on every mouse
+ movement pixman_region_contains_rectangle() is called many times on
+ that complicated region. And pixman_region_contains_rectangle() is
+ doing a linear scan through the rectangles in the region, although the
+ scan does exit when it finds the first box that can't possibly
+ intersect the passed-in rectangle.
+
+ This patch changes the loop so that it uses a binary search to skip
+ boxes that don't overlap the current y position. The performance
+ improvement for the text dragging case is easily noticable.
+
+ V2: Use the binary search for the "getting up to speed or skippping
+ remainder of band" as well.
+
+commit 795ec5af2fc86fb0ebeca9ce82913d6002267a12
+Author: Søren Sandmann
Pedersen <ssp@redhat.com>
+Date: Tue Aug 2 01:32:15 2011 -0400
+
+ New test of pixman_region_contains_{rectangle,point}
+
+ This test generates random regions and checks whether random boxes and
+ points are contained within them. The results are combined and a CRC32
+ value is computed and compared to a known-correct one.
+
+commit 842591d9d12a24a9a06308ae03996153c5a99e64
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 3 18:38:20 2011 -0400
+
+ Fix lcg_rand_u32() to return 32 random bits.
+
+ The lcg_rand() function only returns 15 random bits, so lcg_rand_u32()
+ would always have 0 in bit 31 and bit 15. Fix that by calling
+ lcg_rand() three times, to generate 15, 15, and 2 random bits

+ respectively.
+
+ V2: Use the 10/11 most significant bits from the 3 lcg results and mix
+ them with the low ones from the adjacent one, as suggested by Andrea
+ Canciani.
+
+commit 12da53f81c4a507a963641796132bbafe0cd6224
+Author:
Taekyun Kim <tkq.kim@samsung.com>
+Date: Thu Aug 4 22:21:04 2011 +0900
+
+ ARM NEON: Standard fast path out_reverse_8_8888
+
+ This fast path is frequently used by cairo to do polygon rendering.
+ Existing NEON code generation framework is used.
+
+commit b395c3c5a28570ceac7cea55cb66a94096559897
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Mon Jul 18 08:15:23 2011 +0200
+
+ radial: Fix typos and trailing whitespace
+
+ Correct a typo reported by James Cloos and some reported by automatic
+ spellchecking.
+
+ Remove trailing whitespace.
+
+commit b8d6babc91459a9f854695b56f0265298a3c6427
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sat Jul 23 00:27:34 2011 +0300
+
+ ARM: workaround binutils bug #12931 (code sections alignment)
+
+ More details in binutils bugtracker:
+ http://sourceware.org/bugzilla/show_bug.cgi?id=12931
+
+ The problem was encountered in the wild by Mozilla:
+ https://bugzilla.mozilla.org/show_bug.cgi?id=672787
+
+commit
5754e5689d4cac8868d6416dffa4a7d0c2d15423
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Jul 15 23:35:21 2011 +0300
+
+ C fast path for scaled src_x888_8888 with nearest filter
+
+ The necessity is justified by a message in the pixman mailing list:
+ http://lists.freedesktop.org/archives/pixman/2011-July/001330.html

+
+   NONE repeat is not supported, but could be added by tweaking
+   the interpretation and making use of 'fully_transparent_src'
+   scanline function argument.
+
+commit c06af104546868ed748c8f771817f5e9ae9a6a2d
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Fri Jul 15 22:02:01 2011 +0200
+
+   radial: Improve documentation and naming
+
+   Add a comment to explain why the tests guarantee that the code always
+   computes the greatest valid root.
+
+   Rename "det" as "discr" to make it match the mathematical name
+   "discriminant".
+
+   Based on a patch
 by Jeff Muizelaar <jmuizelaar@mozilla.com>.
+
+commit e814b50877bf313619fbf777dcab98d39874f8a4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 4 15:55:52 2011 -0400
+
+   Makefile.am: Add pixman@lists.freedesktop.org to RELEASE_ANNOUNCE_LIST
+
+commit ed6d2f1cecb2f6d0cfe92bf493fde1abb4004856
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 4 15:35:17 2011 -0400
+
+   Post-release version bump to 0.23.3
+
+commit 6c4001a0e1cc0350147638ba941d23e129d00e0d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 4 08:13:19 2011 -0400
+
+   Pre-release version bump to 0.23.2
+
+commit eff7c8efabe2da33edbf0bdc06e101352981286b
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Mon Jun 13 19:53:49 2011 +0900
+
+   Bilinear REPEAT_NORMAL source line extension for too short src_width
+
+   To avoid function call and other calculation overhead, extend source
+   scanline into temporary buffer when source width is too small.
+   Temporary

buffer will be repeatedly accessed, so extension cost is
+ very small due to cache effect.
+
+commit 828794d328e7ad1efc860baee8d6e72450b486b9
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Jun 8 17:17:42 2011 +0900
+
+ Enable REPEAT_NORMAL bilinear fast path entries
+
+commit 1161b3f9edb6f5c396438b79f2df3218ea8d194e
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Jun 8 17:14:29 2011 +0900
+
+ ARM: Add REPEAT_NORMAL functions to bilinear BIND macros
+
+ Now bilinear template support REPEAT_NORMAL, so functions for that
+ is added to PIXMAN_ARM_BIND_SCALED_BILINEAR_ macros. Fast path
+ entries are not enabled yet.
+
+commit ebd2f06d96ee91f9f7f13b906ae328862da7dde8
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Jun 8 17:11:24 2011 +0900
+
+ sse2: Declare bilinear src_8888_8888 REPEAT_NORMAL composite function
+
+ Now bilinear template support REPEAT_NORMAL, so declare composite
+ functions using it. Function is just declared not
used yet.
+
+commit 7e22b2f7824f844076e1bb1fb26a6ec5e5d029cd
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Jun 8 15:58:01 2011 +0900
+
+ REPEAT_NORMAL support for bilinear fast path template
+
+ The basic idea is to break down normal repeat into a set of
+ non-repeat scanline compositions and stitching them together.
+
+ Bilinear may interpolate last and first pixels of source scanline.
+ In this case, we can use temporary wrap around buffer.
+
+commit 2f025bad436982a2b1c54d7cb49b426ebf198350
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Jun 8 15:37:31 2011 +0900
+
+ Replace boolean arguments with flags for bilinear fast path template
+
+ By replacing boolean arguments with flags, the code can be more

+ readable and flags can be extended to do some more things later.
+
+ Currently following flags are defined.
+
+ FLAG_NONE
+ - No flags are turned on.
+
+ FLAG_HAVE_SOLID_MASK
+ - Template will generate
solid mask composite functions.
+
+ FLAG_HAVE_NON_SOLID_MASK
+ - Template will generate bits mask composite functions.
+
+ FLAG_HAVE_SOLID_MASK and FLAG_NON_SOLID_MASK should be mutually
+ exclusive.
+
+commit 4d4d1760e8118aaea06783079a3b87f83deb4907
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sat Jun 25 10:16:25 2011 -0400
+
+ test: Make fuzzer-find-diff.pl executable
+
+commit ece8d13bf77d050662bb9db9716576dabff37554
+Author: Søren Sandmann <sandmann@cs.au.dk>
+Date: Sun Jun 19 20:29:08 2011 -0400
+
+ ARM: Fix two bugs in neon_composite_over_n_8888_0565_ca().
+
+ The first bug is that a vmull.u8 instruction would store its result in
+ the q1 register, clobbering the d2 register used later on. The second
+ is that a vraddhn instruction would overwrite d25, corrupting the q12
+ register used later.
+
+ Fixing the second bug caused a pipeline bubble where the d18 register
+ would be unavailable for a clock cycle. This
is fixed by swapping the
+ instruction with its successor.
+
+commit 5715a394c41b2fd259ce7bf07b859d2a4eb2ec09
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jun 19 19:10:45 2011 -0400
+
+ blitters-test: Make common formats more likely to be tested.
+
+ Move the eight most common formats to the top of the list of image
+ formats and make create_random_image() much more likely to select one
+ of those eight formats.

+
+   This should help catch more bugs in SIMD optimized operations.
+
+commit d815a1c54ae6ea6ccd16dedb7f83db0d2526d637
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Fri Jun 10 08:56:10 2011 +0200
+
+   Silence autoconf warnings
+
+   Autoconf 2.86 reports:
+
+   warning: AC_LANG_CONFTEST: no AC_LANG_SOURCE call detected in body
+
+   Every code fragment must be wrapped in [AC_LANG_SOURCE([...])]
+
+commit a89f8cfaf11d0149b73ce40eca6e8a7f262f305a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar
 25 15:09:17 2011 -0400
+
+   Replace argumentxs to composite functions with a pointer to a struct
+
+   This allows more information, such as flags or the composite region,
+   to be passed to the composite functions.
+
+commit 99e7d8fab546257ef729ea6db6e9beede984cec1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 25 14:20:43 2011 -0400
+
+   In pixman-general.c rename image_parameters to {src, mask, dest}_image
+
+   All the fast paths generally use these names as well.
+
+commit 4d713e3120909d82e37b0405d035e85bbc8a61a9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 25 14:17:08 2011 -0400
+
+   Replace instances of "dst_*" with "dest_*"
+
+   The variables in question were dst_x, dst_y, dst_image. The majority
+   of _x and _y uses were already dest_x and dest_y, while the majority
+   of _image uses were dst_image.
+
+commit 6aceb767aa6eea38ec3021263ca1d83aa9e0a3df
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sat May
 28 12:32:35 2011 -0400
+

+   demos: Comment out some unused variables
+
+commit 4abe76432a59dec2e7978bfa4a01ad032178da0a
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sat May 28 11:56:32 2011 -0400
+
+   sse2: Delete some unused variables
+
+commit 5c60e1855b082b1a323319e1d0ba2d6f916fb3d5
+Author: Søren Sandmann <ssp@redhat.com>
+Date: Sat May 28 11:51:31 2011 -0400
+
+   mmx: Delete some unused variables
+
+commit 827e61333865dc94851eb79c8e640b103e3fd629
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Mon May 23 12:08:54 2011 +0200
+
+   Include noop in win32 builds
+
+commit 65b63728cc8ada802c9798e11e6fa92d21f2fbf8
+Author: Nis Martensen <nis.martensen@web.de>
+Date: Mon May 2 21:43:58 2011 +0200
+
+   Fix a few typos in pixman-combine.c.template
+
+   Some equations have too much multiplication with alpha.
+
+commit dd449a2a8ee1381fdc5297257917bc0786bf0ac4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 23 10:26:49 2011 -0400
+
+   Move NOP
 src iterator into noop implementation.
+
+   The iterator for sources where neither RGB nor ALPHA is needed, really
+   belongs in the noop implementation.
+
+commit ba480882aa465d8414dc8a4472d89d94911af60a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 23 10:24:41 2011 -0400
+
+   Move NULL iterator into pixman-noop.c
+
+   Iterating a NULL image returns NULL for all scanlines. We may as well
+   do this in the noop iterator.
+
+commit a4e984de19f7f2ca30b1d736cdd2dded91a75907

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 8 23:42:36 2011 -0500
+
+   Add a noop src iterator
+
+   When the image is a8r8g8b8 and not transformed, and the fetched
+   rectangle is within the image bounds, scanlines can be fetched by
+   simply returning a pointer instead of copying the bits.
+
+commit d4fff4a95921f734f26ef51953f4dddfcf423eab
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jan 24 12:16:03 2011 -0500
+
+   Move noop
 dest fetching to noop implementation
+
+   It will at some point become useful to have CPU specific destination
+   iterators. However, a problem with that, is that such iterators should
+   not be used if we can composite directly in the destination image.
+
+   By moving the noop destination iterator to the noop implementation, we
+   can ensure that it will be chosen before any CPU specific iterator.
+
+commit 13ce88f80095d0fa18330a23e03819368987e277
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jan 24 11:35:27 2011 -0500
+
+   Add a noop composite function for the DST operator
+
+   The DST operator doesn't actually do anything, so add a noop "fast
+   path" for it, instead of checking in pixman_image_composite32().
+
+   The performance tradeoff here is that we get rid of a test for DST in
+   the common case where the operator is not DST, in return for an extra
+   walk over the clip rectangles in the uncommon case where the operator
+
    actually is DST.
+
+commit 8c76235f41b2ac70ce6e652dcd1cab975e1283a4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jan 24 11:31:49 2011 -0500
+
+   Add a "noop" implementation.
+
+   This new implementation is ahead of all other implementations in the
+   fallback chain and is supposed to contain operations that are "noops",
+   ie., they don't require any work. For example, it might contain a
+   "fast path" for the DST operator that doesn't actually do anything or

+   an iterator for a8r8g8b8 that just returns a pointer into the image.
+
+commit 0f6a4d45886d64b244d57403609f0377b58cc7fb
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu May 5 10:17:08 2011 +0200
+
+   test: Fix compilation on win32
+
+   MSVC complains about uint32_t being used as an expression:
+
+   composite.c(902) : error C2275: 'uint32_t' : illegal use of this type
+   as an expression
+
+commit 838c2b593ec5ebbbf82de5b7790f5b68fd86bbc1
+Author: Dave Yeo <dave.r.yeo@gmail.com>
+Date:
  Mon May 9 12:38:44 2011 +0200
+
+   Check for working mmap()
+
+   OS/2 doesn't have a working mmap().
+
+commit c53625a36e28883684c3a6e640aa3656ecca7615
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon May 2 05:11:49 2011 -0400
+
+   Post-release version bump to 0.23.1
+
+commit 918a544406df8f428056daff8a634ad6eadf67c9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon May 2 05:06:33 2011 -0400
+
+   Pre-release version bump to 0.22.0
+
+commit 71b2e2745be31e7d18a11f8c2cba8f6031ace17c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Apr 19 00:22:29 2011 -0400
+
+   Post-release version bump to 0.21.9
+
+commit 89868e93bd8d66f0fac0f0b42cf7718756992e4e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Apr 19 00:00:37 2011 -0400
+
+   Pre-release version bump to 0.21.8
+
+commit 33f1652b953467f3910605b3be723e21b3ebe078
+Author: Taekyun Kim <tkq.kim@samsung.com>

+Date: Wed Apr 13 11:57:35 2011 +0900
+
+
    ARM: Enable bilinear fast paths using scanline functions in pixman-arm-neon-asm-bilinear.S
+
+   Enable fast paths which is supported by scanline functions in
+   pixman-arm-neon-asm-bilinear.S
+
+commit e8185f1cb43417d9f7b1d2856bb899f1b84fde81
+Author: Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Apr 13 11:48:40 2011 +0900
+
+   ARM: NEON scanline functions for bilinear scaling
+
+   General fetch->combine->store based bilinear scanline functions.
+   Need further optimizations and eventually will be replaced with optimal
+   functions one by one.
+   General functions should be located in pixman-arm-neon-asm-bilinear.S and
+   optimal functions in pixman-arm-neon-asm.S
+
+   Following general bilinear scanline functions are implemented
+   over_8888_8888
+   add_8888_8888
+   src_8888_8_8888
+   src_8888_8_0565
+   src_0565_8_x888
+   src_0565_8_0565
+   over_8888_8_8888
+   add_8888_8_8888
+
+commit 00939d35628e733fab63606cfb1d7fcb667860d3
+Author:
 Taekyun Kim <tkq.kim@samsung.com>
+Date: Wed Apr 13 11:43:44 2011 +0900
+
+   ARM: Common macro for scaled bilinear scanline function with A8 mask
+
+   Defining PIXMAN_ARM_BIND_SCALED_BILINEAR_SRC_A8_DST macro for declaration of
+   scaled bilinear scanline functions in common header.
+
+commit b455496890f7f941d561c284aca14783300bedd6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 11 07:52:57 2011 -0500
+
+   Offset rendering in pixman_composite_trapezoids() by (x_dst, y_dst)
+
+   Previously, this function would do coordinate calculations in such a
+   way that (x_dst, y_dst) would only affect the alignment of the source

+ image, but not of the traps, which would always be considered to be in
+ absolute destination coordinates. This is unlike the
+ pixman_image_composite() function which also registers the mask to the
+ destination.
+
+ This patch makes it so that traps are also offset by (x_dst,
y_dst).
+
+ Also add a comment explaining how this function is supposed to
+ operate, and update tri-test.c and composite-trap-test.c to deal with
+ the new semantics.
+
+commit e75e6a4ef5c5a8ac8b0e8464f08f83fd2b6e86ed
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 2 23:24:48 2011 -0400
+
+ ARM: Add 'neon_composite_over_n_8888_0565_ca' fast path
+
+ This improves the performance of the firefox-talos-gfx benchmark with
+ the image16 backend. Benchmark on an 800 MHz ARM Cortex A8:
+
+ Before:
+
+ [#] backend   test   min(s) median(s) stddev. count
+ [0] image16   firefox-talos-gfx 121.773 122.218   0.15%   6/6
+
+ After:
+
+ [#] backend   test   min(s) median(s) stddev. count
+ [0] image16   firefox-talos-gfx   85.247   85.563   0.22%   6/6
+
+ V2: Slightly better instruction scheduling based on comments from Taekyun Kim.
+
  V3: Eliminate all stalls from the inner loop. Also based on comments from Taekyun Kim.
+
+commit 1670b952143284f480c39ff087b5694a64eb7db3
+Author: Gilles Espinasse <g.esp@free.fr>
+Date: Tue Apr 12 22:44:56 2011 +0200
+
+ Fix OpenMP not supported case
+
+ PIXMAN_LINK_WITH_ENV did not fail unless -Wall -Werror is used.
+ So even when the compiler did not support OpenMP, USE_OPENMP was defined.
+ Fix that by running the second OpenMP test only when first AC_OPENMP find supported
+
+ configure tested in the cases :
+ gcc without libgomp support, no openmp option, --enable-openmp and --disable-openmp
+ gcc with libgomp support, no openmp option, --enable-openmp and --disable-openmp

+
+   Not tested with autoconf version not knowing openmp (<2.62)
+
+   Warn when --enable-openmp is requested but no support is found
+
+   Signed-off-by: Gilles Espinasse <g.esp@free.fr>
+
+commit b9e8f7fb7494e4ee4be56d1555632233a494b28e
+Author: Gilles Espinasse
 <g.esp@free.fr>
+Date: Tue Apr 12 22:44:25 2011 +0200
+
+   Fix missing AC_MSG_RESULT value from Werror test
+
+   Use the correct variable name
+
+   Signed-off-by: Gilles Espinasse <g.esp@free.fr>
+
+commit caae4e82ffdeebfb9aa98a6c49dd563e065c0959
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Mar 21 20:25:27 2011 +0200
+
+   ARM: pipelined NEON implementation of bilinear scaled 'src_8888_0565'
+
+   Benchmark on ARM Cortex-A8 r1p3 @600MHz, 32-bit LPDDR @166MHz:
+   Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+   before: op=1, src=20028888, dst=10020565, speed=33.59 MPix/s
+   after: op=1, src=20028888, dst=10020565, speed=46.25 MPix/s
+
+   Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+   Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+   before: op=1, src=20028888, dst=10020565, speed=63.86 MPix/s
+   after: op=1, src=20028888, dst=10020565, speed=84.22
 MPix/s
+
+commit d080d59b802c351daed84b92bd4eb20c775b81c7
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Mar 16 17:24:49 2011 +0200
+
+   ARM: pipelined NEON implementation of bilinear scaled 'src_8888_8888'
+
+   Performance of the inner loop when working with the data in L1 cache:
+   ARM Cortex-A8: 41 cycles per 4 pixels (no stalls and partial dual issue)
+   ARM Cortex-A9: 48 cycles per 4 pixels (no stalls)
+
+   It might be still possible to improve performance even more on ARM Cortex-A8
+   with a better use of dual issue.
+

+   Benchmark on ARM Cortex-A8 r1p3 @600MHz, 32-bit LPDDR @166MHz:
+   Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+   before: op=1, src=20028888, dst=20028888, speed=40.38 MPix/s
+   after: op=1, src=20028888, dst=20028888, speed=48.47 MPix/s
+
+   Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+   Microbenchmark (scaling 2000x2000 image with scale
 factor close to 1x):
+   before: op=1, src=20028888, dst=20028888, speed=79.68 MPix/s
+   after: op=1, src=20028888, dst=20028888, speed=93.11 MPix/s
+
+commit b496a8b279baebb8b9ab4fbcb2101583be08fe3b
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Mar 17 19:42:01 2011 +0200
+
+   ARM: support different levels of loop unrolling in bilinear scaler
+
+   Now an extra 'flag' parameter is supported in bilinear scaline scaling
+   function generation macro. It can be used to enable 4 or 8 pixels per
+   loop iteration unrolling and provide save/restore code for d8-d15
+   registers.
+
+commit 34ca9cf03fa897cd377cdb19acc22e876b2f4b0e
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Mar 21 18:41:53 2011 +0200
+
+   ARM: use less ARM instructions in NEON bilinear scaling code
+
+   This reduces code size and also puts less pressure on the
+   instruction decoder.
+
+commit 0f7be9f72ef6bfe2555b7f2cc29297c4f4762740
+Author: Siarhei
 Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Mar 16 16:33:41 2011 +0200
+
+   ARM: support for software pipelining in bilinear macros
+
+   Now it's possible to override the main loop of bilinear scaling code
+   with optimized pipelined implementation.
+
+commit 9638af95832563040d6bd861cf4c20ab632058df
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Mar 10 16:12:23 2011 +0200
+
+   ARM: use aligned memory writes in NEON bilinear scaling code
+
+commit 8bba3a0e1e54f03ea78fb44314f3bfa57ec8da31

+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Mar 10 15:34:10 2011 +0200
+
+   ARM: tweaked horizontal weights update in NEON bilinear scaling code
+
+   Moving horizontal interpolation weights update instructions from the
+   beginning of loop to its end allows to hide some pipeline stalls and
+   improve performance.
+
+commit a2153222677327be43251012f462d19a7e98ce14
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Sun Apr 3 20:32:30 2011 -0400
+
+   ARM: Tiny improvement in over_n_8888_8888_ca_process_pixblock_head
+
+   Instead of two
+
+   mvn d24, d24
+   mvn d25, d25
+
+   use just one
+
+   mvn q12, q12
+
+   Also move another vmvn instruction into the created pipeline bubble,
+   as pointed out by Siarhei.
+
+commit 44f99735d9c6a897078db12172d9d2d07b204f37
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 2 14:12:12 2011 -0400
+
+   Makefile.am: Put development releases in "snapshots" directory
+
+   Up until now, all pixman release, both snapshots and releases were
+   uploaded to the "releases" directory on www.cairographics.org, but
+   it's better to development snapshots in the "snapshots" directory.
+
+   This patch changes Makefile.am to do that.
+
+commit ad3cbfb073fc325e1b3152898ca71b8255675957
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Mar 22 13:42:05 2011 -0400
+
+   test: Fix infinite loop in
 composite
+
+   When run in PIXMAN_RANDOMIZE_TESTS mode, this test would go into an

+ infinite loop because the loop started at 'seed' but the stop
+ condition was still N_TESTS.
+
+commit b514e63cfc58af21f7097db5a1b04292a758782a
+Author: Alexandros Frantzis <alexandros.frantzis@linaro.org>
+Date: Fri Mar 18 14:37:27 2011 +0200
+
+ Add support for the r8g8b8a8 and r8g8b8x8 formats to the tests.
+
+commit f05a90e5f8d1d0af60e2c684cbe9f1327c33135a
+Author: Alexandros Frantzis <alexandros.frantzis@linaro.org>
+Date: Fri Mar 18 14:36:15 2011 +0200
+
+ Add simple support for the r8g8b8a8 and r8g8b8x8 formats.
+
+ This format is particularly useful on big-endian architectures, where RGBA in
+ memory/file order corresponds to r8g8b8a8 as an uint32_t. This is important
+ because RGBA is in some cases the only available choice (for example as a pixel
+ format in OpenGL ES 2.0).
+
+commit 7eb0abb5e819046537b9f809c7ec332c6679c557
+Author: Søren Sandmann Pedersen
<ssp@redhat.com>
+Date: Mon Mar 14 14:56:22 2011 -0400
+
+ test: Randomize some tests if PIXMAN_RANDOMIZE_TESTS is set
+
+ This patch makes so that composite and stress-test will start from a
+ random seed if the PIXMAN_RANDOMIZE_TESTS environment variable is
+ set. Running the test suite in this mode is useful to get more test
+ coverage.
+
+ Also, in stress-test.c make it so that setting the initial seed causes
+ threads to be turned off. This makes it much easier to see when
+ something fails.
+
+commit 6b27768d81c254a4f1d05473157328d5a5d99b9c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Mar 12 19:42:58 2011 -0500
+
+ Simplify the prototype for iterator initializers.
+
+ All of the information previously passed to the iterator initializers
+ is now available in the iterator itself, so there is no need to pass
+ it as arguments anymore.
+
+commit 74d0f44b6d6d613d24541b849835da0464cc6fd0
+Author: Søren Sandmann Pedersen

<ssp@redhat.com>
+Date: Sat Mar 12 19:12:35 2011 -0500
+
+   Fill out parts of iters in _pixman_implementation_{src,dest}_iter_init()
+
+   This makes _pixman_implementation_{src,dest}_iter_init() responsible
+   for filling parts of the information in the iterators. Specifically,
+   the information passed as arguments is stored in the iterator.
+
+   Also add a height field to pixman_iter_t().
+
+commit be4eaa0e4f79af38b7b89c5b09ca88d3a88d9396
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Mar 12 19:06:02 2011 -0500
+
+   In delegate_{src,dest}_iter_init() call delegate directly.
+
+   There is no reason to go through
+   _pixman_implementation_{src,dest}_iter_init(), especially since
+   _pixman_implementation_src_iter_init() is doing various other checks
+   that only need to be done once.
+
+   Also call delegate->src_iter_init() directly in pixman-sse2.c
+
+commit 70a923882ca24664344ba91a649e7aa12c3063f7
+Author: Siarhei Siamashka
<siarhei.siamashka@nokia.com>
+Date: Wed Mar 9 13:55:48 2011 +0200
+
+   ARM: a bit faster NEON bilinear scaling for r5g6b5 source images
+
+   Instructions scheduling improved in the code responsible for fetching r5g6b5
+   pixels and converting them to the intermediate x8r8g8b8 color format used in
+   the interpolation part of code. Still a lot of NEON stalls are remaining,
+   which can be resolved later by the use of pipelining.
+
+   Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+   Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+   before: op=1, src=10020565, dst=10020565, speed=32.29 MPix/s
+   op=1, src=10020565, dst=20020888, speed=36.82 MPix/s
+   after: op=1, src=10020565, dst=10020565, speed=41.35 MPix/s
+   op=1, src=10020565, dst=20020888, speed=49.16 MPix/s
+
+commit fe99673719091d4a880d031add1369332a75731b
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Mar 9 13:27:41
2011 +0200
+

```
+    ARM: NEON optimization for bilinear scaled 'src_0565_0565'
+
+    Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+     Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+      before: op=1, src=10020565, dst=10020565, speed=3.30 MPix/s
+      after:  op=1, src=10020565, dst=10020565, speed=32.29 MPix/s
+
+commit 29003c3befe2159396d181ef9ac1caaadcabf382
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Mar 9 13:21:53 2011 +0200
+
+    ARM: NEON optimization for bilinear scaled 'src_0565_x888'
+
+    Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+     Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+      before: op=1, src=10020565, dst=20020888, speed=3.39 MPix/s
+      after:  op=1, src=10020565, dst=20020888, speed=36.82 MPix/s
+
+commit 2ee27e7d79637da9173ee1bf3423e5a81534ccb4
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Mar 9 11:53:04
 2011 +0200
+
+    ARM: NEON optimization for bilinear scaled 'src_8888_0565'
+
+    Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+     Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+      before: op=1, src=20028888, dst=10020565, speed=6.56 MPix/s
+      after:  op=1, src=20028888, dst=10020565, speed=61.65 MPix/s
+
+commit 11a0c5badbc59ce967707ef836313cc98f8aec4e
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Mar 9 11:46:48 2011 +0200
+
+    ARM: use common macro template for bilinear scaled 'src_8888_8888'
+
+    This is a cleanup for old and now duplicated code. The performance improvement
+    is mostly coming from the enabled use of software prefetch, but instructions
+    scheduling is also slightly better.
+
+    Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+     Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+      before: op=1, src=20028888, dst=20028888, speed=53.24
 MPix/s
+      after:  op=1, src=20028888, dst=20028888, speed=74.36 MPix/s
+
+commit 34098dba6763afd3636a14f9c2a079ab08f23b2d
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
```

+Date: Wed Mar 9 11:34:15 2011 +0200
+
+   ARM: NEON: common macro template for bilinear scanline scalers
+
+   This allows to generate bilinear scanline scaling functions targeting
+   various source and destination color formats. Right now a8r8g8b8/x8r8g8b8
+   and r5g6b5 color formats are supported. More formats can be added if needed.
+
+commit 66f4ee1b3bccf4516433d61dbf2035551a712fa2
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Mar 9 10:59:46 2011 +0200
+
+   ARM: new bilinear fast path template macro in 'pixman-arm-common.h'
+
+   It can be reused in different ARM NEON bilinear scaling fast path functions.
+
+commit 5921c17639fe5fdc595c850e3347281c1c8746ba
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sun Mar 6 22:16:32 2011 +0200
+
+
    ARM: assembly optimized nearest scaled 'src_8888_8888'
+
+   Benchmark on ARM Cortex-A8 r1p3 @500MHz, 32-bit LPDDR @166MHz:
+   Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+   before: op=1, src=20028888, dst=20028888, speed=44.36 MPix/s
+   after: op=1, src=20028888, dst=20028888, speed=39.79 MPix/s
+
+   Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+   Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+   before: op=1, src=20028888, dst=20028888, speed=102.36 MPix/s
+   after: op=1, src=20028888, dst=20028888, speed=163.12 MPix/s
+
+commit f3e17872f5522e25da8e32de83e62bee8cc198d7
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Mar 7 03:10:43 2011 +0200
+
+   ARM: common macro for nearest scaling fast paths
+
+   The code of nearest scaled 'src_0565_0565' function was generalized
+   and moved to a common macro, so that it can be reused for other
+   fast
 paths.
+
+commit bb3d1b67fd0f42ae00af811c624ea1c44541034d
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sun Mar 6 16:17:12 2011 +0200
+

+ ARM: use prefetch in nearest scaled 'src_0565_0565'
+
+ Benchmark on ARM Cortex-A8 r1p3 @500MHz, 32-bit LPDDR @166MHz:
+ Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+ before: op=1, src=10020565, dst=10020565, speed=75.02 MPix/s
+ after: op=1, src=10020565, dst=10020565, speed=73.63 MPix/s
+
+ Benchmark on ARM Cortex-A8 r2p2 @1GHz, 32-bit LPDDR @200MHz:
+ Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+ before: op=1, src=10020565, dst=10020565, speed=176.12 MPix/s
+ after: op=1, src=10020565, dst=10020565, speed=267.50 MPix/s
+
+commit 84e361c8e357e26f299213fbeefe64c73447b116
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 4 15:51:18 2011 -0500
+
+ test: Do endian swapping of the source and destination images.
+

+ Otherwise the test fails on big endian. Fix for bug 34767, reported by
+ Siarhei Siamashka.
+
+commit 84f3c5a71a2de1a96dcf0c7f9ab0a8ee1b1b158f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Mar 7 13:45:54 2011 -0500
+
+ test: In image_endian_swap() use pixman_image_get_format() to get the bpp.
+
+ There is no reason to pass in the bpp as an argument; it can be gotten
+ directly from the image.
+
+commit 17feaa9c50bb8521b0366345efe181bd99754957
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Feb 22 18:45:03 2011 +0200
+
+ ARM: NEON optimization for bilinear scaled 'src_8888_8888'
+
+ Initial NEON optimization for bilinear scaling. Can be probably
+ improved more.
+
+ Benchmark on ARM Cortex-A8:
+ Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+ before: op=1, src=20028888, dst=20028888, speed=6.70 MPix/s
+ after: op=1, src=20028888, dst=20028888, speed=44.27 MPix/s
+
+commit
350029396d911941591149cc82b5e68a78ad6747
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>

+Date: Mon Feb 21 20:18:02 2011 +0200
+
+   SSE2 optimization for bilinear scaled 'src_8888_8888'
+
+   A primitive naive implementation of bilinear scaling using SSE2 intrinsics,
+   which only handles one pixel at a time. It is approximately 2x faster than
+   pixman general compositing path. Single pass processing without intermediate
+   temporary buffer contributes to ~15% and loop unrolling contributes to ~20%
+   of this speedup.
+
+   Benchmark on Intel Core i7 (x86-64):
+   Using cairo-perf-trace:
+   before: image   firefox-planet-gnome   12.566   12.610   0.23%   6/6
+   after: image   firefox-planet-gnome   10.961   11.013   0.19%   5/6
+
+   Microbenchmark (scaling 2000x2000 image with scale factor close to 1x):
+   before: op=1, src=20028888, dst=20028888, speed=70.48 MPix/s
+   after: op=1, src=20028888, dst=20028888,
 speed=165.38 MPix/s
+
+commit 0df43b8ae5031dd83775d00b57b6bed809db0e89
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Feb 21 02:07:09 2011 +0200
+
+   test: check correctness of 'bilinear_pad_repeat_get_scanline_bounds'
+
+   Individual correctness check for the new bilinear scaling related
+   supplementary function. This test program uses a bit wider range
+   of input arguments, not covered by other tests.
+
+commit d506bf68fd0e9a1c5dd484daee70631699918387
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Feb 21 01:29:02 2011 +0200
+
+   Main loop template for fast single pass bilinear scaling
+
+   Can be used for implementing SIMD optimized fast path
+   functions which work with bilinear scaled source images.
+
+   Similar to the template for nearest scaling main loop, the
+   following types of mask are supported:
+   1. no mask
+   2. non-scaled a8 mask with SAMPLES_COVER_CLIP flag
+   3. solid mask
+
+
    PAD repeat is fully supported. NONE repeat is partially
+   supported (right now only works if source image has alpha

+ channel or when alpha channel of the source image does not
+ have any effect on the compositing operation).
+
+commit 9ebde285fa990bfa1524f166fbfb1368c346b14a
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Feb 24 12:53:39 2011 +0100
+
+ test: Silence MSVC warnings
+
+ MSVC does not notice non-returning functions (abort() / assert(0))
+ and warns about paths which end with them in non-void functions:
+
+ c:\cygwin\home\ranma42\code\fdo\pixman\test\fetch-test.c(114) :
+ warning C4715: 'reader' : not all control paths return a value
+ c:\cygwin\home\ranma42\code\fdo\pixman\test\stress-test.c(133) :
+ warning C4715: 'real_reader' : not all control paths return a value
+ c:\cygwin\home\ranma42\code\fdo\pixman\test\composite.c(431) :
+ warning C4715: 'calc_op' : not all control paths return a value
+
+ These warnings
 can be silenced by adding a return after the
+ termination call.
+
+commit 8868778ea1fdc8e70da76b3b00ea78106c5840d8
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Feb 22 22:43:48 2011 +0100
+
+ Do not include unused headers
+
+ pixman-combine32.h is included without being used both in
+ pixman-image.c and in pixman-general.c.
+
+commit 72f5e5f608506c18c484bc5bc3e58bd83aeb7691
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Feb 22 22:04:49 2011 +0100
+
+ test: Add Makefile for Win32
+
+commit 11305b4ecdd36a17592c5c75de9157874853ab20
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Feb 22 21:46:37 2011 +0100
+
+ test: Fix tests for compilation on Windows
+
+ The Microsoft C compiler cannot handle subobject initialization and
+ Win32 does not provide snprintf.
+
+ Work around these limitations by using normal struct initialization

+ and using sprintf (a manual check shows that the buffer size is
+ sufficient).
+
+commit
20ed723a5a42fb8636bc9a5f32974dec1b66a785
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Thu Feb 24 10:44:04 2011 +0100
+
+ Fix compilation on Win32
+
+ Makefile.win32 contained a typo and was missing the dependency from
+ the built sources.
+
+commit 48e951000c7ff14f40c671f3efb6abb18162c840
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 22 16:13:32 2011 -0500
+
+ Post-release version bump to 0.21.7
+
+commit 8b3332166094db657e96c365a524b2cd7513359b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 22 15:43:41 2011 -0500
+
+ Pre-release version bump to 0.21.6
+
+commit 2cb67d2a0b6bed4490a41c34a185cc54a445559a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 22 15:40:34 2011 -0500
+
+ Minor fix to the RELEASING file
+
+commit 3cdf74257bdb9d054637252f4fa7503abf580db9
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 22 15:28:17 2011 -0500
+
+ Delete pixman-x64-mmx-emulation.h
from pixman/Makefile.am
+
+commit 65919ad17fd7b4c6f963690fc78155c7cfe1a51a
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Feb 22 19:28:08 2011 +0200
+
+ Ensure that tests run as the last step of a build for 'make check'
+
+ Previously 'make check' would compile and run tests first, and only
+ then proceed to compiling demos. Which is not very convenient
+ because of the need to scroll back console output to see the
+ tests verdict. Swapping order of SUBDIRS variable entries in

+   Makefile.am resolves this.
+
+commit 34a7ac047411d6c1f1708cb8dd4469cd1aa40b31
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 07:38:49 2011 -0500
+
+   sse2: Minor coding style cleanups.
+
+   Also make pixman_fill_sse2() static.
+
+commit 10f69e5ec844e2630f8e5b21fd5392719d34d060
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 07:40:02 2011 -0500
+
+   sse2: Remove pixman-x64-mmx-emulation.h
+
+   Also stop including
 mmintrin.h
+
+commit 984be4def2e62a05e9a91e77ac8c703fed30718b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 07:38:03 2011 -0500
+
+   sse2: Delete obsolete or redundant comments
+
+commit 33d98902261ad73c1b6b1366968e49a1cb2bf68b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 07:07:45 2011 -0500
+
+   sse2: Remove all the core_combine_* functions
+
+   Now that _mm_empty() is not used anymore, they are no longer different
+   from the sse2_combine_* functions, so they can be consolidated.
+
+commit 87cd6b8056bbacb835eeb991f03b9135dcd58334
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 05:15:50 2011 -0500
+
+   sse2: Don't compile pixman-sse2.c with -mmmx anymore
+
+   It's not necessary now that the file doesn't use MMX instructions.
+
+commit e7fe5e35e9640c6d6bb08c24b96ce882434a7f9f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 05:07:08 2011 -0500
+
+   sse2: Delete unused

MMX functions and constants and all _mm_empty()s
+
+ These are not needed because the SSE2 implementation doesn't use MMX
+ anymore.
+
+commit f88ae14c15040345a12ff0488c7b23d25639e49b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 03:56:20 2011 -0500
+
+ sse2: Convert all uses of MMX registers to use SSE2 registers instead.
+
+ By avoiding use of MMX registers we won't need to call emms all over
+ the place, which avoids various miscompilation issues.
+
+commit 7fb75bb3e6c3e004374d186ea2d6f02d1caccba4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 18 03:57:55 2011 -0500
+
+ Coding style: core_combine_in_u_pixelsse2 -> core_combine_in_u_pixel_sse2
+
+commit 510c0d088a975efe75cc2b796547f3aaed1c18e6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 15 09:11:44 2011 -0500
+
+ In pixman_image_set_transform() allow NULL for transform
+
+ Previously, this would crash unless the existing transform
were also
+ NULL.
+
+commit 7feb710e60cdab5c448a396537a8de16e72091e2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Feb 15 04:55:02 2011 -0500
+
+ Avoid marking images dirty when properties are reset
+
+ When an image property is set to the same value that it already is,
+ there is no reason to mark the image dirty and incur a recomputation
+ of the flags.
+
+commit 3598ec26ecf761488e2ac1536553eaf3bb361e72
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Feb 11 08:57:42 2011 -0500
+
+ Add new public function pixman_add_triangles()
+
+ This allows some more code to be deleted from the X server. The
+ implementation consists of converting to trapezoids, and is shared

+   with pixman_composite_triangles().
+
+commit 964c7e7cd20a6ed414fdf92b71fdc83db91d7578
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jan 14 06:19:08 2011 -0500
+
+   Optimize adding opaque trapezoids onto a8 destination.
+
+   When the
 source is opaque and the destination is alpha only, we can
+   avoid the temporary mask and just add the trapezoids directly.
+
+commit 0bc03482f10d7bfe64a4199e9cd484ff1129d709
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jan 12 03:02:59 2011 -0500
+
+   Add a test program, tri-test
+
+   This program tests whether the new triangle support works.
+
+commit 79e69aac8cfe7d45707098735376a6e6c2dcfa06
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 11 10:15:21 2011 -0500
+
+   Add support for triangles to pixman.
+
+   The Render X extension can draw triangles as well as trapezoids, but
+   the implementation has always converted them to trapezoids. This patch
+   moves the X server's triangle conversion code into pixman, where we
+   can reuse the pixman_composite_trapezoid() code.
+
+commit 4e6dd4928d817338ae406a620f5658bbddb66df1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Feb 10 10:37:08 2011 -0500
+
+   Add a test
 program for pixman_composite_trapezoids().
+
+   A CRC32 based test program to check that pixman_composite_trapezoids()
+   actually works.
+
+commit 803272e38c5b9b9abe347390c2ecd2ac4be7b9be
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 11 09:23:43 2011 -0500
+
+   Add pixman_composite_trapezoids().
+
+   This function is an implementation of the X server request

+ Trapezoids. That request is what the X backend of cairo is using all
+ the time; by moving it into pixman we can hopefully make it faster.
+
+commit 1feaf6bea707a97db44643c5bfa6218afea9b6be
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 18 19:40:53 2011 -0500
+
+ test/Makefile.am: Move all the TEST_LDADD into a new global LDADD.
+
+ This gets rid of a bunch of replicated *_LDADD clauses
+
+commit 1237fd9bc84a27f232ceddf1c7b72645fcc99aec
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 18 19:20:18 2011 -0500
+
+ Add @TESTPROGS_EXTRA_LDFLAGS@
to AM_LDFLAGS
+
+ Instead of explicitly adding it to each test program.
+
+commit 7dfe845786920d50c6f93165ef6f539e6f4d1b53
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 18 19:16:39 2011 -0500
+
+ Move all the GTK+ based test programs to a new subdir, "demos"
+
+ This separates the test suite from the random gtk+ using test
+ programs. "demos" is somewhat misleading because the programs there
+ are not particularly exciting (with the possible exception of
+ composite-test which shows off all the compositing operators).
+
+commit 8e4100260bbdb827abc45a2a5e352a53246fe614
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Feb 4 00:47:36 2011 +0200
+
+ SSE2 optimization for nearest scaled over_8888_n_8888
+
+ This operation shows up a little bit in some of the html5 based
+ games from http://www.kesiev.com/akihabara/
+
+ === Cairo trace of the game intro animation for 'Legend of Sadness' ===
+

+ before:
+ [0] image firefox-legend-of-sadness 46.286 46.298 0.01% 5/6
+
+ after:
+ [0] image firefox-legend-of-sadness 45.088 45.102 0.04% 6/6

```
+
+    === Microbenchmark (scaling ~2000x~2000 -> ~2000x~2000) ===
+
+    before:
+        translucent: op=3, src=8888, mask=s dst=8888, speed=131.30 MPix/s
+        transparent: op=3, src=8888, mask=s dst=8888, speed=132.38 MPix/s
+        opaque:      op=3, src=8888, mask=s dst=8888, speed=167.90 MPix/s
+    after:
+        translucent: op=3, src=8888, mask=s dst=8888, speed=301.93 MPix/s
+        transparent: op=3, src=8888, mask=s dst=8888, speed=770.70 MPix/s
+        opaque:      op=3, src=8888, mask=s dst=8888, speed=301.80 MPix/s
+
+commit 39b86b032d1b81958d4dfc880ba7f129aecb1de0
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Nov 3 15:22:28 2010 +0200
+
+    ARM: NEON optimization for nearest scaled over_0565_8_0565
+
+    In some cases may be used for
 html5 video when hardware acceleration
+    is not available.
+
+commit 9a90c1c90f1d128de68b3ed855a2ea1c3bed20c3
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Nov 3 15:16:28 2010 +0200
+
+    ARM: NEON optimization for nearest scaled over_8888_8_0565
+
+    In some cases may be used for html5 video when hardware acceleration
+    is not available.
+
+commit cd1062ded44978fa97aa3d3295af016c80c6e2eb
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Nov 3 15:15:15 2010 +0200
+
+    ARM: new macro template for using scaled fast paths with a8 mask
+
+commit b099957887ef69b795d542f8f2980b5a94fb823f
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Feb 2 18:14:56 2011 +0200
+
+    Better support for NONE repeat in nearest scaling main loop template
+
+    Scaling function now gets an extra boolean argument, which is set
+    to TRUE when we are fetching padding pixels for NONE repeat. This
+    allows to make a decision
 whether to interpret alpha as 0xFF or 0x00
+    for such pixels when working with formats which don't have alpha
```

+   channel (for example x8r8g8b8 and r5g6b5).
+
+commit 14f82083a12be07f340fdea491759b3bb77b4e66
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Oct 22 17:54:41 2010 +0300
+
+   Support for a8 and solid mask in nearest scaling main loop template
+
+   In addition to the most common case of not having any mask at all, two
+   variants of scaling with mask show up in cairo traces:
+   1. non-scaled a8 mask with SAMPLES_COVER_CLIP flag
+   2. solid mask
+
+   This patch extends the nearest scaling main loop template to also
+   support these cases.
+
+commit e83cee5aac26522f31a7e81ea3f972ae2248f6b0
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Oct 22 16:29:01 2010 +0300
+
+   test: Extend scaling-test to support a8/solid mask and ADD operation
+
+   Image width also has been increased because SIMD optimizations
 typically
+   do more unrolling in the inner loops, and this needs to be tested.
+
+commit 97447f440fec9889bba6cc21c6d9366183c47e7e
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Jan 17 02:29:43 2011 +0200
+
+   Use const modifiers for source buffers in nearest scaling fast paths
+
+commit 8d359b00c5bb9960c3c584a7f77a943c0ce61368
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Jul 30 18:37:51 2010 +0300
+
+   C fast paths for a simple 90/270 degrees rotation
+
+   Depending on CPU architecture, performance is in the range of 1.5 to 4 times
+   slower than simple nonrotated copy (which would be an ideal case, perfectly
+   utilizing memory bandwidth), but still is more than 7 times faster if
+   compared to general path.
+
+   This implementation sets a performance baseline for rotation. The use
+   of SIMD instructions may further improve memory bandwidth utilization.
+
+commit e0c7948c970b816f323a6402241ca70fa855c12c
+Author:

Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Jul 29 17:58:13 2010 +0300
+
+   New flags for 90/180/270 rotation
+
+   These flags are set when the transform is a simple nonscaled 90/180/270
+   degrees rotation.
+
+commit 3b68c295fd45297a631569b35608364dbcb6d452
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Oct 26 15:40:01 2010 +0300
+
+   test: affine-test updated to stress 90/180/270 degrees rotation more
+
+commit 56f173f0af5a59a12596cf1ed9d6fb7c8ebe6318
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Feb 10 05:21:42 2011 -0500
+
+   Add pixman-conical-gradient.c to Makefile.win32.
+
+   Pointed out by Kirill Tishin.
+
+commit 7fd4897730412977f730b850e6e697156fb3734b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jan 23 16:53:26 2011 -0500
+
+   Add SSE2 fetcher for 0565
+
+   Before:
+
+   add_0565_0565 = L1: 61.08 L2: 61.03 M: 60.57 (10.95%) HT: 46.85 VT: 45.25 R: 39.99 RT:
 20.41 (233Kops/s)
+
+   After:
+
+   add_0565_0565 = L1: 77.84 L2: 76.25 M: 75.38 (13.71%) HT: 55.99 VT: 54.56 R: 45.41 RT: 21.95 (
255Kops/s)
+
+commit 8414aa76c20732a6ed29a2d80175936570c5e592
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 31 00:57:46 2010 -0500
+
+   Improve performance of sse2_combine_over_u()
+
+   Split this function into two, one that has a mask, and one that
+   doesn't. This is a fairly substantial speed-up in many cases.
+
+   New output of lowlevel-blt-bench over_x888_8_0565:

+
+   over_x888_8_0565 = L1: 63.76 L2: 62.75 M: 59.37 (21.55%) HT: 45.89 VT: 43.55 R: 34.51 RT: 16.80 (201Kops/s)
+
+commit 08e855f15cba24aac83145b994069d0bb50be5a1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jan 23 16:17:17 2011 -0500
+
+   Add SSE2 fetcher for a8
+
+   New output of lowlevel-blt-bench over_x888_8_0565:
+
+   over_x888_8_0565 = L1: 57.85 L2: 56.80 M: 54.14 (19.50%) HT: 42.64 VT: 40.56 R: 32.67 RT: 16.22 (195Kops/s)
+
+   Based in part on code by Steve Snyder from
+
+   https://bugs.freedesktop.org/show_bug.cgi?id=21173
+
+commit 2b6b0cf3591ce4438f7e0571c7a762972a999cd8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jan 12 06:38:54 2011 -0500
+
+   Add SSE2 fetcher for x8r8g8b8
+
+   New output of lowlevel-blt-bench over_x888_8_0565:
+
+   over_x888_8_0565 = L1: 55.68 L2: 55.11 M: 52.83 (19.04%) HT: 39.62 VT: 37.70 R: 30.88 RT: 14.62 (174Kops/s)
+
+   The fetcher is looked up in a table, so that other fetchers can easily
+   be added.
+
+   See also https://bugs.freedesktop.org/show_bug.cgi?id=20709
+
+commit 13aed37758d1af5b5bc2a80d886b764d4c45827e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 22 17:13:19 2011 -0500
+
+   Add a test for over_x888_8_0565 in lowlevel_blt_bench().
+
+   The next few commits will speed this up quite a bit.
+
+   Current output:
+
+   ---
+   reference memcpy speed = 2217.5MB/s (554.4MP/s for 32bpp fills)

+ ---
+ over_x888_8_0565 = L1: 54.67 L2: 54.01 M: 52.33 (18.88%) HT: 37.19 VT: 35.54 R: 29.40 RT: 13.63 (162Kops/s)
+
+commit 2de397c272fd60d6ce4311b411ad37a8e39daff6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jan 24 12:24:42 2011 -0500
+
+ Move fallback decisions from implementations into pixman-cpu.c.
+
+ Instead of having each individual implementation decide which fallback
+ to use, move it into pixman-cpu.c, where a more global decision can be
+ made.
+
+ This is accomplished by adding a "fallback" argument to all the
+ pixman_implementation_create_*() implementations, and then in
+ _pixman_choose_implementation() pass in the desired fallback.
+
+commit ed781df1cc30748c8193be9b9a497def0b768b6b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jan 21 14:47:33 2011 -0500
+
+ Print a warning when a development
snapshot is being configured.
+
+ It seems to be relatively common for people to use development
+ snapshots of pixman thinking they are ordinary releases. This patch
+ makes it such that if the current minor version is odd, configure will
+ print a banner explaining the version number scheme plus information
+ about where to report bugs.
+
+commit fead9eb82a7fc78a4927fff960d4cacea799bd9b
+Author: Rolland Dudemaine <rolland@ghs.com>
+Date: Tue Jan 25 15:08:26 2011 +0200
+
+ Fix "variable was set but never used" warnings
+
+ Removes useless variable declarations. This can only result in more
+ efficient code, as these variables where sometimes assigned, but
+ their values were never used.
+
+commit 32e556df33b3cd3b31de8184f144b3065206406b
+Author: Rolland Dudemaine <rolland@ghs.com>
+Date: Tue Jan 25 14:14:57 2011 +0200
+
+ test: Use the right enum types instead of int to fix warnings
+
+ Green Hills Software MULTI compiler was producing

```
 a number
+    of warnings due to incorrect uses of int instead of the correct
+    corresponding pixman_*_t type.
+
+commit b61ec0a6862ba101fff0afa082fb7490a0c44785
+Author: Rolland Dudemaine <rolland@ghs.com>
+Date:   Tue Jan 25 14:52:49 2011 +0200
+
+    Correct the initialization of 'max_vx'
+
+    http://lists.freedesktop.org/archives/pixman/2011-January/000937.html
+
+commit e8a1b1c4e502ecbb70028bd5a86034bfe1b16997
+Author: Rolland Dudemaine <rolland@ghs.com>
+Date:   Tue Jan 25 13:55:28 2011 +0200
+
+    test: Fix for mismatched 'fence_malloc' prototype/implementation
+
+    Solves compilation problem when 'mprotect' is not available. For
+    example, when using Green Hills Software MULTI compiler or mingw:
+    http://lists.freedesktop.org/archives/pixman/2011-January/000939.html
+
+commit a8e4677ecc2fcbf16a53902e26fc82d0860e9a21
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Mon Jan 10 21:01:16 2011 +0200
+
+    The code in 'bitmap_addrect' already
 assumes non-null 'reg->data'
+
+    So the check of 'reg->data' pointer can be safely removed.
+
+commit a6a04c07c354e10d787193af8d2f6a6d27f374ad
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Wed Jan 19 07:47:52 2011 -0500
+
+    Post-release version bump to 0.21.5
+
+commit 4e56cec5649b7e122ccfc815b4ff45611953afce
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Wed Jan 19 07:38:24 2011 -0500
+
+    Pre-release version bump to 0.21.4
+
+commit 1d7195dd6c68eab73d063f37de3a9331446111d4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Mon Jan 17 14:12:20 2011 -0500
+
+    Fix dangling-pointer bug in bits_image_fetch_bilinear_no_repeat_8888().
```

+
+ The mask_bits variable is only declared in a limited scope, so the
+ pointer to it becomes invalid instantly. Somehow this didn't actually
+ trigger any bugs, but Brent Fulgham reported that Bounds Checker was
+ complaining about it.
+
+ Fix the bug by moving mask_bits to the function scope.
+
+commit
2ac4ae1ae253f7c2efedab036a677dac2f9c9eed
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Jan 12 17:43:40 2011 +0100
+
+ Add a test for radial gradients
+
+ radial-test is a port of the radial-gradient test from the cairo test
+ suite. It has been modified so that some pixels have 0 in both the a
+ and b coefficients of the quadratic equation solved by the rasterizer,
+ to expose a division by zero in the original implementation.
+
+commit 7f4eabbeec92e55fd8f812c0e5d8568eacbb633d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Dec 12 07:34:42 2010 -0500
+
+ Fix destination fetching
+
+ When fetching from destinations, we need to ignore transformations,
+ repeat and filtering. Currently we don't ignore them, which means all
+ kinds of bad things can happen.
+
+ This bug fixes this problem by directly calling the scanline fetchers
+ for destinations instead of going through the full
+ get_scanline_32/64().
+
+commit
9489c2e04a5361fe19a89a0da9d7be28436c0a4b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Dec 12 09:19:13 2010 -0500
+
+ Turn on testing for destination transformation
+
+commit fffeda703e40ced90ec5ad6d6cd37a44294d3fe4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Dec 11 08:10:04 2010 -0500
+
+ Skip fetching pixels when possible
+
+ Add two new iterator flags, ITER_IGNORE_ALPHA and ITER_IGNORE_RGB that

+ are set when the alpha and rgb values are not needed. If both are set,
+ then we can skip fetching entirely and just use
+ _pixman_iter_get_scanline_noop.
+
+commit 3e635d6491d883304662aff3c72558dc9065f1f1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 16:55:55 2010 -0500
+
+ Add direct-write optimization back
+
+ Introduce a new ITER_LOCALIZED_ALPHA flag that indicates that the
+ alpha value computed is used only for the alpha channel of the output;
+ it doesn't affect the RGB channels.
+

+ Then in pixman-bits-image.c, if a destination is either a8r8g8b8 or
+ x8r8g8b8 with localized alpha, the iterator will return a pointer
+ directly into the image.
+
+commit 0f1a5c4a27d34dcf4525dc38fcb48c14f653e828
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 15:18:48 2010 -0500
+
+ Get rid of the classify methods
+
+ They are not used anymore, and the linear gradient is now doing the
+ optimization in a different way.
+
+commit b66cabb88488413c4787845c7da67901dc988ee6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 15:14:24 2010 -0500
+
+ Linear: Optimize for horizontal gradients
+
+ If the gradient is horizontal, we can reuse the same scanline over and
+ over. Add support for this optimization to
+ _pixman_linear_gradient_iter_init().
+
+commit cf14189c6993e42ae71977a4a4061417941ffee8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 14:59:20 2010 -0500
+
+ Consolidate
 the various get_scanline_32() into get_scanline_narrow()
+
+ The separate get_scanline_32() functions in solid, linear, radial and
+ conical images are no longer necessary because all access to these
+ images now go through iterators.

+
+commit 0a6360a7ee0983dd52d368f5352d8c313fb0570b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 14:44:22 2010 -0500
+
+   Allow NULL property_changed function
+
+   Initialize the field to NULL, and then delete the empty functions from
+   the solid, linear, radial, and conical images.
+
+commit 34b5633105e5e2838ac8deb32d26e3bbe73a3d1a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 14:39:01 2010 -0500
+
+   Move get_scanline_32/64 to the bits part of the image struct
+
+   At this point these functions are basically a cache that the bits
+   image uses for its fetchers, so they can be moved to the bits image.
+
+   With the scanline getters only being initialized in the
 bits image,
+   the _pixman_image_get_scanline_generic_64 can be moved to
+   pixman-bits-image.c. That gets rid of the final user of
+   _pixman_image_get_scanline_32/64, so these can be deleted.
+
+commit d6b13f99b41eac535d961b89d4b53f616c910c1e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 10:53:02 2010 -0500
+
+   Use an iterator in pixman_image_get_solid()
+
+   This is a step towards getting rid of the
+   _pixman_image_get_scanline_32/64() functions.
+
+commit 51a5e949f394560b057911d46aab768f8e07bd54
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 13:26:53 2010 -0500
+
+   Virtualize iterator initialization
+
+   Make src_iter_init() and dest_iter_init() virtual methods in the
+   implementation struct. This allows individual implementations to plug
+   in their own CPU specific scanline fetchers.
+
+commit 6503c6edccbc6b08ea8efe398da3265126efa896
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec

10 12:40:26 2010 -0500
+
+   Move iterator initialization to the respective image files
+
+   Instead of calling _pixman_image_get_scanline_32/64(), move the
+   iterator initialization into the respecive image implementations and
+   call the scanline generators directly.
+
+commit 23c6e1d2c007cc661b31e1bcdfd84604d7a9a560
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 12:31:29 2010 -0500
+
+   Eliminate the _pixman_image_store_scanline_32/64 functions
+
+   They were only called from next_line_write_narrow/wide, so they could
+   simply be absorbed into those functions.
+
+commit b2c9eaa5020d08cfaac6c2296895e5a65c971ffd
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 12:19:50 2010 -0500
+
+   Move initialization of iterators for bits images to pixman-bits-image.c
+
+   pixman_iter_t is now defined in pixman-private.h, and iterators for
+   bits images are being initialized in pixman-bits-image.c
+
+commit 15b1645c7b96498788c9376e3bb7d8a5e7b4e584
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Dec 10 11:30:27 2010 -0500
+
+   Add iterators in the general implementation
+
+   We add a new structure called a pixman_iter_t that encapsulates the
+   information required to read scanlines from an image. It contains two
+   functions, get_scanline() and write_back(). The get_scanline()
+   function will generate pixels for the current scanline. For iterators
+   for source images, it will also advance to the next scanline. The
+   write_back() function is only called for destination images. Its
+   function is to write back the modified pixels to the image and then
+   advance to the next scanline.
+
+   When an iterator is initialized, it is passed this information:
+
+   - The image to iterate
+
+   - The rectangle to be iterated
+

+   - A buffer that the iterator may (but is not required to) use. This
+   buffer is guaranteed to have space for
 at least width pixels.
+
+   - A flag indicating whether a8r8g8b8 or a16r16g16b16 pixels should
+   be fetched
+
+   There are a number of (eventual) benefits to the iterators:
+
+   - The initialization of the iterator can be virtualized such that
+   implementations can plug in their own CPU specific get_scanline()
+   and write_back() functions.
+
+   - If an image is horizontal, it can simply plug in an appropriate
+   get_scanline(). This way we can get rid of the annoying
+   classify() virtual function.
+
+   - In general, iterators can remember what they did on the last
+   scanline, so for example a REPEAT_NONE image might reuse the same
+   data for all the empty scanlines generated by the zero-extension.
+
+   - More detailed information can be passed to iterator, allowing
+   more specialized fetchers to be used.
+
+   - We can fix the bug where destination filters and transformations
+
+   are not currently being ignored as they should be.
+
+   However, this initial implementation is not optimized at all. We lose
+   several existing optimizations:
+
+   - The ability to composite directly in the destination
+   - The ability to only fetch one scanline for horizontal images
+   - The ability to avoid fetching the src and mask for the CLEAR
+   operator
+
+   Later patches will re-introduce these optimizations.
+
+commit 255d624e508e29b452e567c249ac75ae8d8e2abe
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Jan 11 14:36:24 2011 +0200
+
+   ARM: do /proc/self/auxv based cpu features detection only in linux
+
+   This method is linux specific, but earlier it was tried for any platform
+   that did not have _MSC_VER macro defined.
+
+commit 2bbd553bd21dcc1b199eb11ec6cb78a5b9769d49

+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Sep 13 04:21:33 2010 +0300
+
+   A new
 configure option --enable-static-testprogs
+
+   This option can be used for building fully static binaries of the test
+   programs so that they can be easily run using qemu-user. With binfmt-misc
+   configured, 'make check' works fine for crosscompiled pixman builds.
+
+commit 55bbccf84e475b2e3c4536606cd08c946c041fd0
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Jan 10 18:29:33 2011 +0200
+
+   Make 'fast_composite_scaled_nearest_*' less suspicious
+
+   Taking address of a variable and then using it as an array looks suspicious
+   to static code analyzers. So change it into an array with 1 element to make
+   them happy. Both old and new variants of this code are correct because 'vx'
+   and 'unit_x' arguments are set to 0 and it means that the called scanline
+   function can only access a single element of 'zero' buffer.
+
+commit ae70b38d40a587e29dc5e0dfe6250693598beca7
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon
 Jan 10 18:09:16 2011 +0200
+
+   Bugfix for a corner case in 'pixman_transform_is_inverse'
+
+   When 'pixman_transform_multiply' fails, the result of multiplication just
+   could not have been identity matrix (one of the values in the resulting
+   matrix can't be represented as 16.16 fixed point value). So it is safe
+   to return FALSE.
+
+commit ab3809f4da0d833944363c5c039c3a2e6a8389c5
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Jan 4 13:42:29 2011 +0200
+
+   Workaround for a preprocessor issue in old Sun Studio
+
+   Patch from Peter O'Gorman with some modifications
+
+   https://bugs.freedesktop.org//show_bug.cgi?id=32764
+
+commit f5c0a60ac8c32ac37aaf58f67048585af58f3141
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Jan 4 08:41:02 2011 +0200
+

+   Fix for "syntax error: empty declaration" Solaris Studio warnings
+
+commit c71e24c9fc312cf0b8ec56d2e657efe79d062d2f
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:
  Tue Jan 4 08:18:38 2011 +0200
+
+   Revert "Fix "syntax error: empty declaration" warnings."
+
+   This reverts commit b924bb1f8191cc7c386d8211d9822aeeaadcab44.
+
+   There is a better fix for these Solaris Studio warnings.
+
+commit 29439bd7724031504e965ffe5b366baaeeae07d8
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Nov 23 11:37:54 2010 +0100
+
+   Improve handling of tangent circles
+
+   When b is 0, avoid the division by zero and just return transparent
+   black.
+
+   When the solution t would have an invalid radius (negative or outside
+   [0,1] for none-extended gradients), return transparent black.
+
+commit a484a9c49c98dfad0d74af4440039f61bef24d48
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Dec 20 16:11:48 2010 -0500
+
+   sse2: Skip src pixels that are zero in sse2_composite_over_8888_n_8888()
+
+   This is a big speed-up in the SVG helicopter game:
+
+   http://ie.microsoft.com/testdrive/Performance/Helicopter/Default.xhtml
+

+   when rendered by Firefox 4 since it is compositing big images
+   consisting almost entirely of zeros.
+
+commit 2610323545cb5ee3dff0b7d7da505a1cd1e01b73
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Dec 18 06:06:39 2010 -0500
+
+   Fix divide-by-zero in set_lum().
+
+   When (l - min) or (max - l) are zero, simply set all the channels to
+   the limit, 0 in the case of (l - min), and a in the case of (max - l).
+

+commit 3479050216a65e3ef6e966a8e801415145261216
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Dec 18 06:05:52 2010 -0500
+
+   Add a test compositing with the various PDF operators.
+
+   The test has floating point exceptions enabled, and currently fails
+   with a divide-by-zero.
+
+commit 45a2d010773d05666e87b7a6502e8fcb25add4eb
+Author: Cyril Brulebois <kibi@debian.org>
+Date: Sun Dec 19 19:37:26 2010 +0100
+
+   Fix linking issues when HAVE_FEENABLEEXCEPT is set.
+

+   All objects using test/util.c fail to link:
+ | CCLD   region-test
+ | /usr/bin/ld: utils.o: in function enable_fp_exceptions:utils.c(.text+0x939): error: undefined reference to
'feenableexcept'
+
+   There's indeed no explicit dependency on -lm, and if HAVE_FEENABLEEXCEPT
+   happens to be set, test/util.c uses feenableexcept(), which is nowhere
+   to be found while linking.
+
+   Fix this by adding -lm to TEST_LDADD, although two alternatives could be
+   thought of:
+   - Only specifying -lm for objects using util.c.
+   - Introducing a conditional to add -lm only when configure detects
+   have_feenableexcept=yes.
+
+   Signed-off-by: Cyril Brulebois <kibi@debian.org>
+
+commit 303de045ff21bd5c9cb756d50a41fe4cb8bc97b8
+Author: Jon TURNEY <jon.turney@dronecode.org.uk>
+Date: Sat Dec 18 18:32:39 2010 +0000
+
+   Remove stray #include <fenv.h>
+
+   Remove a stray #include <fenv.h> added in commit 2444b2265abeaf6dcf3df1763bc2711684e63bb8
+
    to fix compilation on platforms which don't have fenv.h
+
+   Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
+
+commit f914cf448630d4ba4af6603b827c621ae6705387
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 23 21:55:02 2010 -0400

+
+   Add a stress-test program.
+
+   This test program tries to use as many rarely-used features as
+   possible, including alpha maps, accessor functions, oddly-sized
+   images, strange transformations, conical gradients, etc.
+
+   The hope is to provoke crashes or irregular behavior in pixman.
+
+commit 7d7b03c0911584f687a7fd57a3f5d5eed21080e0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Oct 12 10:56:26 2010 -0400
+
+   Make the argument to fence_malloc() an int64_t
+
+   That way we can detect if someone attempts to allocate a negative size
+   and abort instead of just returning NULL and segfaulting later.
+
+commit d41522113ec84e74f7915599fd7624f842be8862
+Author: Søren
 Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 29 18:02:02 2010 -0400
+
+   test/utils.c: Initialize palette->rgba to 0.
+
+   That way it can be used with palettes that are not statically
+   allocated, without causing valgrind issues.
+
+commit 337f0bff0d8965cb702175e0eedbf418b1e7f0b5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 23 21:02:02 2010 -0400
+
+   test: Move palette initialization to utils.[ch]
+
+commit 2444b2265abeaf6dcf3df1763bc2711684e63bb8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 20 13:12:37 2010 -0400
+
+   Extend gradient-crash-test
+
+   Test the gradients with various transformations, and test cases where
+   the gradients are specified with two identical points.
+
+commit de2e51dacb1ccd312c0461088b942ef4e93e2731
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 20 13:53:07 2010 -0400
+
+   Add enable_fp_exceptions() function in utils.[ch]

+
+   This function enables floating
 point traps if possible.
+
+commit a2afcc9ba4ed5a2843fd133ca23704960846185b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 23 20:56:11 2010 -0400
+
+   test: Make composite test use some existing macros instead of defining its own
+
+   Also move the ARRAY_LENGTH macro into utils.h so it can be used elsewhere.
+
+commit 4d8d2fa47e457e3c8a5ab956b52cff4785aa45c3
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Dec 17 15:29:58 2010 +0200
+
+   COPYING: added Nokia to the list of copyright holders
+
+commit 3d094997b1820719d15cec7dc633ed37e1912bfc
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Nov 30 00:31:06 2010 +0200
+
+   Fix for potential unaligned memory accesses
+
+   The temporary scanline buffer allocated on stack was declared
+   as uint8_t array. As a result, the compiler was free to select
+   any arbitrary alignment for it (even though there is typically
+   no reason to use really weird alignments
 here and the stack is
+   normally at least 4 bytes aligned on most platforms). Having
+   improper alignment is non-portable and can impact performance
+   or even make the code misbehave depending on the target platform.
+
+   Using uint64_t type for this array should ensure that any possible
+   memory accesses done by pixman code are going to be handled correctly
+   (pixman-combine64.c can access this buffer via uint64_t * pointer).
+
+   Some alignment related problem was reported in:
+   http://lists.freedesktop.org/archives/pixman/2010-November/000747.html
+
+commit 985e59a82fa5e644cb6516dc174ab3f79f1448df
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Nov 25 02:28:29 2010 +0200
+
+   ARM: added 'neon_src_rpixbuf_8888' fast path
+
+   With this optimization added, pixman assisted conversion from
+   non-premultiplied to premultiplied alpha format is now fully

+   NEON optimized (both with and without R/B color components
+   swapping
 in the process).
+
+commit 733f68912f4a44c24ad3973049a7e1d98f4c6ea8
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 29 09:11:29 2010 +0200
+
+   ARM: added 'neon_composite_in_n_8' fast path
+
+commit af7a69d90ea2b43a4e850870727723d719f09a1c
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 29 09:00:46 2010 +0200
+
+   ARM: added flags parameter to some asm fast path wrapper macros
+
+   Not all types of operations can be skipped when having transparent
+   solid source or transparent solid mask. Add an extra flags parameter
+   for providing this information to the wrappers.
+
+commit f6843e3797eea7e4aed7614b1086f5cefc06c0f9
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 29 03:31:32 2010 +0200
+
+   ARM: added 'neon_composite_add_8888_n_8888' fast path
+
+commit b066b520dfaf0a9f4d1bc9a73c789091e9ce7cc8
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 29 02:38:52 2010
 +0200
+
+   ARM: added 'neon_composite_add_n_8_8888' fast path
+
+commit 1fba7790367d7b726d05a33bbbcebe10b9280a31
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 29 02:10:22 2010 +0200
+
+   ARM: better NEON instructions scheduling for add_8888_8888_8888
+
+   Provides a minor performance improvement by using pipelining and hiding
+   instructions latencies. Also do not clobber d0-d3 registers (source
+   image pixels) while doing calculations in order to allow the use of
+   the same macro for add_n_8_8888 fast path later.
+
+   Benchmark from ARM Cortex-A8 @500MHz:
+
+   == before ==
+

```
+     add_8888_8888_8888 = L1:  95.94  L2:  42.27  M: 25.60 (121.09%)
+                     HT:  14.54  VT:  13.13  R: 12.77  RT:  4.49 (48Kops/s)
+        add_8888_8_8888 = L1: 104.51  L2:  57.81  M: 36.06 (106.62%)
+                     HT:  19.24  VT:  16.45  R: 14.71  RT:  4.80 (51Kops/s)
+
+    == after ==
+
+     add_8888_8888_8888
 = L1: 106.66  L2:  47.82  M: 27.32 (129.30%)
+                     HT:  15.44  VT:  13.96  R: 12.86  RT:  4.48 (48Kops/s)
+        add_8888_8_8888 = L1: 107.72  L2:  61.02  M: 38.26 (113.16%)
+                     HT:  19.48  VT:  16.72  R: 14.82  RT:  4.80 (51Kops/s)
+
+commit c3f48b6aa2f9354af02ffc8c938ec6753fdcbde3
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Sun Nov 28 22:05:53 2010 +0200
+
+    ARM: added 'neon_composite_add_8888_8_8888' fast path
+
+commit 6d2f7f981b52b41f4321071c325babcf792bd666
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Sat Nov 27 15:53:54 2010 +0200
+
+    ARM: added 'neon_composite_over_0565_n_0565' fast path
+
+commit 3990931bf6197eff1cec06cf24bce53ddf9a539a
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Sat Nov 27 04:47:39 2010 +0200
+
+    ARM: reuse common NEON code for over_{n_8|8888_n|8888_8}_0565
+
+    Renamed suppementary macros from 'over_n_8_0565' to 'over_8888_8_0565',
+
   because they can actually support all variants of this operation:
+    over_8888_8_0565/over_n_8_0565/over_8888_n_0565.
+
+    Also 'over_8888_8_0565' now uses more optimized common code instead of its
+    own variant, improving performance a bit. Even though this operation is
+    still memory bandwidth limited, scaled variants of these fast paths may
+    put more stress on CPU later.
+
+    Benchmarked on ARM Cortex-A8 @500MHz:
+
+    == before ==
+
+       over_8888_8_0565 =  L1:  67.10  L2:  53.82  M: 44.70 (105.17%)
+                     HT:  18.73  VT:  16.91  R: 14.25  RT:  4.80 (52Kops/s)
+
```

```
+    == after ==
+
+       over_8888_8_0565 =  L1:  77.83  L2:  58.14  M: 44.82 (105.52%)
+                           HT:  20.58  VT:  17.44  R: 15.05  RT:  4.88 (52Kops/s)
+
+commit a7c36681c0c1955ff9110b81f1789e56abb10a95
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Sat Nov 27 03:53:12 2010 +0200
+
+    ARM: added 'neon_composite_over_8888_n_0565'
 fast path
+
+commit e6814837a6ccd3e4db329e0131eaf2055d2c864b
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Fri Nov 26 17:06:58 2010 +0200
+
+    ARM: better NEON instructions scheduling for over_n_8_0565
+
+    Code rearranged to get better instructions scheduling for ARM Cortex-A8/A9.
+    Now it is ~30% faster for the pixel data in L1 cache and makes better use
+    of memory bandwidth when running at lower clock frequencies (ex. 500MHz).
+    Also register d24 (pixels from the mask image) is now not clobbered by
+    supplementary macros, which allows to reuse them for the other variants
+    of compositing operations later.
+
+    Benchmark from ARM Cortex-A8 @500MHz:
+
+    == before ==
+
+       over_n_8_0565 =  L1:  63.90  L2:  63.15  M: 60.97 ( 73.53%)
+                        HT:  28.89  VT:  24.14  R: 21.33  RT:  6.78 (  67Kops/s)
+
+    == after ==
+
+       over_n_8_0565 =  L1:  82.64  L2:  75.19  M:
 71.52 ( 84.14%)
+                        HT:  30.49  VT:  25.56  R: 22.36  RT:  6.89 (  68Kops/s)
+
+commit 3be86a92ccab240859062a541cdb871d81c9501a
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Sun Nov 28 21:45:06 2010 +0200
+
+    ARM: introduced 'fetch_mask_pixblock' macro to simplify code
+
+    This macro hides the implementation details of pixels fetching
+    for the mask image just like 'fetch_src_pixblock' does for the
+    source image. This provides more possibilities for reusing the
+    same code blocks in different compositing functions.
```

+
+   This patch does not introduce any functional changes and the
+   resulting code in the compiled object file is exactly the same.
+
+commit 98d08b37f17a3379d0ceff8bb7de8f943873fbd8
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Nov 26 08:55:49 2010 +0200
+
+   ARM: added 'neon_composite_over_n_8_8' fast path
+
+commit 4b5b5a2a832cd67f2a0ec231f75a2825b45571fa
+Author: Siarhei Siamashka
 <siarhei.siamashka@nokia.com>
+Date: Mon Nov 15 18:26:43 2010 +0200
+
+   C fast path for a1 fill operation
+
+   Can be used as one of the solutions to fix bug
+   https://bugs.freedesktop.org/show_bug.cgi?id=31604
+
+commit 654961efe405ad1a7e54a77548ca8af322ecc1f8
+Author: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Sun Nov 21 11:42:22 2010 -0800
+
+   Sun's copyrights belong to Oracle now
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+
+commit e7ee43c39d2370716a4d011afa8f5067eced9899
+Author: Cyril Brulebois <kibi@debian.org>
+Date: Wed Nov 17 16:16:56 2010 +0100
+
+   Fix argument quoting for AC_INIT.
+
+   One gets rid of this accordingly:
+ | autoreconf -vfi
+ | autoreconf: Entering directory `.'
+ | autoreconf: configure.ac: not using Gettext
+ | autoreconf: running: aclocal --force
+ | configure.ac:61: warning: AC_INIT: not a literal: "pixman@lists.freedesktop.org"
+ | autoreconf: configure.ac: tracing
+
   | configure.ac:61: warning: AC_INIT: not a literal: "pixman@lists.freedesktop.org"
+
+   Signed-off-by: Cyril Brulebois <kibi@debian.org>
+
+commit c59db8af66510e8e0a852e5775cff46f7476c71c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>

+Date: Tue Nov 16 17:14:47 2010 -0500
+
+   Post-release version bump to 0.21.3
+
+commit 4646c238589986499834b28ed903c366b5ba15ed
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Nov 16 16:43:26 2010 -0500
+
+   Pre-release version bump
+
+commit 536cf4dd3bd144ad1c65fc05f4883a31247a0f5d
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Nov 2 23:38:10 2010 -0400
+
+   Generate {a,x}8r8g8b8, a8, 565 fetchers for nearest/affine images
+
+   There are versions for all combinations of x8r8g8b8/a8r8g8b8 and
+   pad/repeat/none/normal repeat modes. The bulk of each function is an
+   inline function that takes a format and a repeat mode as parameters.
+
+commit da0176e8534e5b027818f6b695343d3e04130a93
+Author:
 Andrea Canciani <ranma42@gmail.com>
+Date: Tue Nov 2 17:04:35 2010 +0100
+
+   Improve conical gradients opacity check
+
+   Conical gradients are completely opaque if all of their stops are
+   opaque and the repeat mode is not 'none'.
+
+commit 151f2554fc9c098ff86b0fdc0d785aa3ff496328
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Nov 2 17:02:01 2010 +0100
+
+   Fix opacity check
+
+   Radial gradients are "conical", thus they can have some non-opaque
+   parts even if all of their stops are completely opaque.
+
+   To guarantee that a radial gradient is actually opaque, it needs to
+   also have one of the two circles containing the other one. In this
+   case when extrapolating, the whole plane is completely covered (as
+   explained in the comment in pixman-radial-gradient.c).
+
+commit 19ed415b74521ad5dcc7b6e3ed4bb644711c7bef
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Oct 31 16:59:45 2010 +0100
+

```
+    Remove unused stop_range
 field
+
+commit d8fe87a6262ee661af8fb0d46bab223e4ab3d88e
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Mon Oct 4 01:56:59 2010 +0300
+
+    ARM: optimization for scaled src_0565_0565 with nearest filter
+
+    The performance improvement is only in the ballpark of 5% when
+    compared against C code built with a reasonably good compiler
+    (gcc 4.5.1). But gcc 4.4 produces approximately 30% slower code
+    here, so assembly optimization makes sense to avoid dependency
+    on the compiler quality and/or optimization options.
+
+    Benchmark from ARM11:
+        == before ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=34.86 MPix/s
+
+        == after ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=36.62 MPix/s
+
+    Benchmark from ARM Cortex-A8:
+        == before ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=89.55 MPix/s
+
+        == after ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=94.91
 MPix/s
+
+commit b8007d042354fd9bd15711d9921e6f1ebb1c3c22
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Tue Nov 2 16:12:42 2010 +0200
+
+    ARM: NEON optimization for scaled src_0565_8888 with nearest filter
+
+    Benchmark from ARM Cortex-A8 @720MHz:
+        == before ==
+        op=1, src_fmt=10020565, dst_fmt=20028888, speed=8.99 MPix/s
+
+        == after ==
+        op=1, src_fmt=10020565, dst_fmt=20028888, speed=76.98 MPix/s
+
+        == unscaled ==
+        op=1, src_fmt=10020565, dst_fmt=20028888, speed=137.78 MPix/s
+
+commit 2e855a2b4a2bb7b3d2ed1826cb4426d14080ca67
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
```

```
+Date:   Tue Nov 2 15:25:51 2010 +0200
+
+    ARM: NEON optimization for scaled src_8888_0565 with nearest filter
+
+    Benchmark from ARM Cortex-A8 @720MHz:
+        == before ==
+        op=1, src_fmt=20028888, dst_fmt=10020565, speed=42.51 MPix/s
+
+        == after ==
+        op=1, src_fmt=20028888, dst_fmt=10020565,
 speed=55.61 MPix/s
+
+        == unscaled ==
+        op=1, src_fmt=20028888, dst_fmt=10020565, speed=117.99 MPix/s
+
+commit 4a09e472b8fbfae3e67d05a26ecc9c8a17225053
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Tue Nov 2 14:39:02 2010 +0200
+
+    ARM: NEON optimization for scaled over_8888_0565 with nearest filter
+
+    Benchmark from ARM Cortex-A8 @720MHz:
+        == before ==
+        op=3, src_fmt=20028888, dst_fmt=10020565, speed=10.29 MPix/s
+
+        == after ==
+        op=3, src_fmt=20028888, dst_fmt=10020565, speed=36.36 MPix/s
+
+        == unscaled ==
+        op=3, src_fmt=20028888, dst_fmt=10020565, speed=79.40 MPix/s
+
+commit 67a4991f3341d38bc3477c8f99f2ef581cd609e3
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Tue Nov 2 14:29:57 2010 +0200
+
+    ARM: NEON optimization for scaled over_8888_8888 with nearest filter
+
+    Benchmark from ARM Cortex-A8 @720MHz:
+        == before ==
+
  op=3, src_fmt=20028888, dst_fmt=20028888, speed=12.73 MPix/s
+
+        == after ==
+        op=3, src_fmt=20028888, dst_fmt=20028888, speed=28.75 MPix/s
+
+        == unscaled ==
+        op=3, src_fmt=20028888, dst_fmt=20028888, speed=53.03 MPix/s
+
```

+commit 0b56244ac81f2bb2402629f8720c7e22893a24df
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Nov 2 19:16:46 2010 +0200
+
+   ARM: performance tuning of NEON nearest scaled pixel fetcher
+
+   Interleaving the use of NEON registers helps to avoid some stalls
+   in NEON pipeline and provides a small performance improvement.
+
+commit 6e76af0d4b60ab74b309994926f28c532c5af155
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Nov 2 14:26:13 2010 +0200
+
+   ARM: macro template in C code to simplify using scaled fast paths
+
+   This template can be used to instantiate scaled fast path functions
+   by providing main loop code and calling NEON assembly optimized
+   scanline
 processing functions from it. Another macro can be used
+   to simplify adding entries to fast path tables.
+
+commit 88014a0e6ffaa22b3ac363c2c73b72530cdba0cc
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 1 10:03:59 2010 +0200
+
+   ARM: nearest scaling support for NEON scanline compositing functions
+
+   Now it is possible to generate scanline processing functions
+   for the case when the source image is scaled with NEAREST filter.
+
+   Only 16bpp and 32bpp pixel formats are supported for now. But the
+   others can be also added later when needed. All the existing NEON
+   fast path functions should be quite easy to reuse for implementing
+   fast paths which can work with scaled source images.
+
+commit 324712e48cf04df3cfcfc463fb221fcdf96e020a
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 1 05:10:34 2010 +0200
+
+   ARM: NEON: source image pixel fetcher can be overrided now
+
+   Added a special macro
 'pixld_src' which is now responsible for fetching
+   pixels from the source image. Right now it just passes all its arguments
+   directly to 'pixld' macro, but it can be used in the future to provide
+   a special pixel fetcher for implementing nearest scaling.
+
+   The 'pixld_src' has a lot of arguments which define its behavior. But

+   for each particular fast path implementation, we already know NEON
+   registers allocation and how many pixels are processed in a single block.
+   That's why a higher level macro 'fetch_src_pixblock' is also introduced
+   (it's easier to use because it has no arguments) and used everywhere
+   in 'pixman-arm-neon-asm.S' instead of VLD instructions.
+
+   This patch does not introduce any functional changes and the resulting code
+   in the compiled object file is exactly the same.
+
+commit cb3f1830257a56f56abf7d50a8b34e215c616aec
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Nov 2 22:53:55 2010 +0200
+
+
    ARM: fix 'vld1.8'->'vld1.32' typo in add_8888_8888 NEON fast path
+
+   This was mostly harmless and had no effect on little endian systems.
+   But wrong vector element size is at least inconsistent and also
+   can theoretically cause problems on big endian ARM systems.
+
+commit fed4a2fde540916fc182917762b85b38052c04de
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Sep 24 16:36:16 2010 +0300
+
+   Do CPU features detection from 'constructor' function when compiled with gcc
+
+   There is attribute 'constructor' supported since gcc 2.7 which allows
+   to have a constructor function for library initialization. This eliminates
+   an extra branch for each composite operation and also helps to avoid
+   complains from race condition detection tools like helgrind.
+
+   The other compilers may or may not support this attribute properly.
+   Ideally, the compilers should fail to compile the code with unknown
+   attribute, so the configure
 check should do the right job. But in
+   reality the problems are surely possible. Fortunately such problems
+   should be quite easy to find because NULL pointer dereference should
+   happen almost immediately if the constructor fails to run.
+
+   clang 2.7:
+   supports __attribute__((constructor)) properly and pretends to be gcc
+
+   tcc 0.9.25:
+   ignores __attribute__((constructor)), but does not pretend to be gcc
+
+commit 99699771cd82e108fbace655bf44013bdccde3bf
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Oct 31 01:40:57 2010 -0400

```
+
+    Delete the source_image_t struct.
+
+    It serves no purpose anymore now that the source_class_t field is gone.
+
+commit f405b4079872ecc312f9514fdadc5287e8f20b08
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Sat Oct 30 17:20:22 2010 -0400
+
+    [mmx] Mark some of the output variables as early-clobber.
+
+    GCC assumes that input variables in inline assembly are fully consumed
+
    before any output variable is written. This means it may allocate the
+    variables in the same register unless the output variables are marked
+    as early-clobber.
+
+    From Jeremy Huddleston:
+
+        I noticed a problem building pixman with clang and reported it to
+        the clang developers.  They responded back with a comment about
+        the inline asm in pixman-mmx.c and suggested a fix:
+
+        """
+        Incidentally, Jeremy, in the asm that reads
+        __asm__ (
+        "movq %7, %0\n"
+        "movq %7, %1\n"
+        "movq %7, %2\n"
+        "movq %7, %3\n"
+        "movq %7, %4\n"
+        "movq %7, %5\n"
+        "movq %7, %6\n"
+        : "=y" (v1), "=y" (v2), "=y" (v3),
+          "=y" (v4), "=y" (v5), "=y" (v6), "=y" (v7)
+        : "y" (vfill));
+
+        all the output operands except the last one should be marked as
+        earlyclobber ("=&y"). This is working by accident with gcc.
+        """
+
+    Cc: jeremyhu@apple.com
+

    Reviewed-by: Matt Turner <mattst88@gmail.com>
+
+commit 9c19a85b0037d48fdd180a2c59ef05bdc4f46680
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Oct 28 20:14:03 2010 -0400
```

+
+   Remove workaround for a bug in the 1.6 X server.
+
+   There used to be a bug in the X server where it would rely on
+   out-of-bounds accesses when it was asked to composite with a
+   window as the source. It would create a pixman image pointing
+   to some bogus position in memory, but then set a clip region
+   to the position where the actual bits were.
+
+   Due to a bug in old versions of pixman, where it would not clip
+   against the image bounds when a clip region was set, this would
+   actually work. So when the pixman bug was fixed, a workaround was
+   added to allow certain out-of-bound accesses.
+
+   However, the 1.6 X server is so old now that we can remove this
+   workaround. This does mean that if you update pixman to 0.22 or later,
+
  you will need to use a 1.7 X server or later.
+
+commit 56748ea9a698daec8f445d2bebbbaed5515380af
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sat Oct 30 15:51:30 2010 +0300
+
+   Fixed broken configure check for __thread support
+
+   Somehow the patch from [1] was not applied correctly, fixing that.
+
+   1. http://lists.cairographics.org/archives/cairo/2010-September/020826.html
+
+commit ecc3612995d5d699a3dd49016a7e9ed40f0a4564
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Nov 1 17:52:29 2010 -0400
+
+   COPYING: Stop saying that a modification is currently under discussion.
+
+   Also put the copyright text into a C comment for easier cut and paste.
+
+commit c993cd9614a47657228e3125bdcedc0bd0e34164
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 27 17:21:06 2010 -0400
+
+   Version bump 0.21.1.
+
+   The previous bump to 0.20.1 was a mistake; it belongs on the 0.20 branch.
+
+commit d890b684f68905ea5e242360f20e2a70251c89fd
+Author:

Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 27 16:58:29 2010 -0400
+
+   Post-release version bump to 0.20.1
+
+commit c5e048d46c32c43172fb8d1c067e82587f916953
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 27 16:51:40 2010 -0400
+
+   Pre-release version bump to 0.20.0
+
+commit 6a6d9758af478e9f5eae48ccf15f1cbea2cf30ed
+Author: Scott McCreary <scottmc2@gmail.com>
+Date: Wed Oct 27 12:31:27 2010 -0700
+
+   Added check to find pthread on Haiku.
+
+commit 00fdb3d8e8d5c04d01c352315b6a8e2e2dfe53ae
+Author: Jon TURNEY <jon.turney@dronecode.org.uk>
+Date: Sun Oct 24 15:58:39 2010 +0100
+
+   Plug another leak in alphamap test
+
+   Even after commit e46be417cebac984a858da05e61d924889695c9e alphamap
+   test is still leaking the alphamap pixmap, leading to mmap() failures
+   on cygwin
+
+   Signed-off-by: Jon TURNEY <jon.turney@dronecode.org.uk>
+
+commit 1c23142efa056124c594c72022e7f383e839d3b1
+Author:
Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 20 16:31:57 2010 -0400
+
+   Post-release version bump to 0.19.7
+
+commit d1051340155a099a523e71377b1d889eec8b972e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 20 16:25:55 2010 -0400
+
+   Pre-release version bump to 0.19.6
+
+commit a966cd04c16ad0c34b0f17e9021a4f3532575ca4
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Oct 12 15:38:20 2010 +0200
+
+   Fix an overflow in the new radial gradient code
+

+ huge-radial in the cairo test suite pointed out an undocumented
+ overflow in the radial gradient code.
+ By casting to pixman_fixed_48_16_t before doing the operations,
+ the overflow can be avoided.
+
+commit 70658f0a6bd451a21fbb43df7865a7dac95abe24
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 20 16:09:44 2010 -0400
+
+ Remove the class field from source_image_t
+
+ The linear gradient was the only image type that relied on the class
+ being
stored in the image struct itself. With the previous changes, it
+ doesn't need that anymore, so we can delete the field.
+
+commit 741c30d9d9cf445fa2e3a2c43d37c221d49831b4
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Oct 20 21:24:32 2010 +0200
+
+ Remove unused enum value
+
+ The new linear gradient code doesn't use SOURCE_IMAGE_CLASS_VERTICAL
+ anymore and it was not used anywhere else.
+
+commit 9b72fd1b857494ea928795c89a4f827e56fe26d3
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Mon Oct 18 22:21:52 2010 +0200
+
+ Make classification consistent with rasterization
+
+ Use the same computations to classify the gradient and to
+ rasterize it.
+ This improves the correctness of the classification by
+ avoiding integer division.
+
+commit 1d4f2d71facd5f2bbce74fbe3407ccea6cf4bea1
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Aug 11 09:58:05 2010 +0200
+
+ Improve precision of linear gradients
+
+ Integer division
(without keeping the remainder) can discard a lot
+ of information. Doing the division maths in floating point (and
+ paying attention to error propagation) allows to greatly improve
+ the precision of linear gradients.
+

+commit f6ab20ca6604739b82311fc078d6ce850f43adc0
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Oct 12 09:52:53 2010 +0200
+
+   Add comments about errors
+
+   Explain how errors are introduced in the computation performed for
+   radial gradients.
+
+commit 1ca715ed1e6914e9bd9f050065e827d7a9e2efc9
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Aug 15 09:07:33 2010 +0200
+
+   Draw radial gradients with PDF semantics
+
+   Change radial gradient computations and definition to reflect the
+   radial gradients in PDF specifications (see section 8.7.4.5.4,
+   Type 3 (Radial) Shadings of the PDF Reference Manual).
+
+   Instead of having a valid interpolation parameter value for every
+   point of the plane, define
 it only for points withing the area
+   covered by the family of circles generated by interpolating or
+   extrapolating the start and end circles.
+
+   Points outside this area are now transparent black (rgba 0 0 0 0).
+   Points within this area have the color assiciated with the maximum
+   value of the interpolation parameter in that point (if multiple
+   solutions exist within the range specified by the extend mode).
+
+commit e46be417cebac984a858da05e61d924889695c9e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Oct 8 07:44:20 2010 -0400
+
+   Plug leak in the alphamap test.
+
+   The images are being created with non-NULL data, so we have to free it
+   outselves. This is important because the Cygwin tinderbox is running
+   out of memory and produces this:
+
+   mmap failed on 20000 1507328
+   mmap failed on 40000 1507328
+   mmap failed on 20000 1507328
+   mmap failed on 40000 1507328
+   mmap failed on 40000
 1507328
+   mmap failed on 40000 1507328
+

+ http://tinderbox.x.org/builds/2010-10-05-0014/logs/pixman/#check
+
+commit 6ed7164de5f74b752d85834b53e89810f1d0a560
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Oct 6 02:40:39 2010 -0400
+
+ Add no-op combiners for DST and the CA versions of the HSL operators.
+
+ We already exit early for DST, but for the HSL operators with
+ component alpha, we crash at the moment. Fix that by adding a dummy
+ combine_dst() function.
+
+commit 233b27257b63ecd502c6392e5ef3a7f736f14365
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Oct 5 11:05:25 2010 -0400
+
+ test: Add some more colors to the color table in composite.c
+
+ Specifically, add transparent black and superluminescent white with
+ alpha = 0.
+
+commit 3f7da59352b604bd6974230d0b149e8e7da77b5c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Oct 5 09:49:45 2010 -0400
+
+ test: Parallize composite.c with OpenMP
+

+ Each test uses the test number as the random number seed; if it
+ didn't, all the threads would run the same tests since they would all
+ start from the same seed.
+
+commit a10ccc9f303ca6b4577afe68cc6b2d8840de5a27
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Mar 7 11:26:16 2010 -0500
+
+ test: Change composite so that it tests randomly generated images
+
+ Previously this test would try to exhaustively test all combinations
+ of formats and operators, which meant that it would take hours to run.
+ Instead, generate images randomly and test compositing those.
+
+ Cc: chris@chris-wilson.co.uk
+
+commit 55e4065cbbc5ffe2ce1986b51ef63e8a0b50fccb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Mar 7 11:24:30 2010 -0500
+

+   test: Fix eval_diff() so that it provides useful error values.
+
+   Previously, this function would evaluate the error under the
+   assumption that the format was 565 or wider. This patch
 changes it to
+   take the actual format into account.
+
+   With that fixed, we can turn on testing for the rest of the formats.
+
+   Cc: chris@chris-wilson.co.uk
+
+commit fe411cf2ac4d5b26a319b906dee87e0cc69d2ad6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Mar 7 10:31:04 2010 -0500
+
+   test: Fix bug in color_correct() in composite.c
+
+   This function was using the number of bits in a channel as if it were
+   a mask, which lead to many spurious errors. With that fixed, we can
+   turn on testing for all formats where all channels have 5 or more
+   bits.
+
+   Cc: chris@chris-wilson.co.uk
+
+commit 4e89a5b7f3b039fcc86dff7fb8bec79884c913e8
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Oct 5 11:08:42 2010 -0400
+
+   Remove broken optimizations in combine_disjoint_over_u()
+
+   The first broken optimization is that it checks "a != 0x00" where it
+   should check "s != 0x00". The other is that it skips the computation
+
   when alpha is 0xff. That is wrong because in the formula:
+
+   min (1, (1 - Aa)/Ab)
+
+   the render specification states that if Ab is 0, the quotient is
+   defined to positive infinity. That is the case even if (1 - Aa) is 0.
+
+commit 8d76c1b3391e1165aaf9e0f331749aee1394f62c
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Oct 4 04:49:08 2010 +0300
+
+   ARM: restore fallback to ARMv6 implementation from NEON in the delegate chain
+
+   After fast path cache introduction, the overhead of having this fallback is
+   insignificant. On the other hand, some of the ARM assembly optimizations (for

```
+    example nearest neighbor scaling) do not need NEON.
+
+commit c748650d700c2f18f1587f06ada3b58d6ddc18d3
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Wed Sep 8 09:30:23 2010 +0300
+
+    Use more unrolling for scaled src_0565_0565 with nearest filter
+
+    Benchmark from Intel Core i7 860:
+
+        ==
 before ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=1335.29 MPix/s
+
+        == after ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=1550.96 MPix/s
+
+        == performance of nonscaled src_0565_0565 operation as a reference ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=2401.31 MPix/s
+
+    Benchmark from ARM Cortex-A8:
+
+        == before ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=81.79 MPix/s
+
+        == after ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=89.55 MPix/s
+
+        == performance of nonscaled src_0565_0565 operation as a reference ==
+        op=1, src_fmt=10020565, dst_fmt=10020565, speed=197.44 MPix/s
+
+commit a520c15e1134d9e801bc2ab461a3c5ade60544f2
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Thu Sep 23 23:41:50 2010 +0300
+
+    ARM: added 'neon_composite_out_reverse_8_0565' fast path
+
+    == before ==
+
+        outrev_8_0565 =  L1:
  22.91  L2:  22.40  M: 18.75 ( 10.47%)
+                    HT: 12.62   VT: 12.22   R: 11.32  RT:  5.30 (  58Kops/s)
+
+    == after ==
+
+        outrev_8_0565 =  L1: 176.27  L2: 151.70  M:108.79 ( 60.81%)
+                    HT: 50.43   VT: 37.16   R: 32.26  RT:  9.62 (  97Kops/s)
+
```

+commit d8820360f79d07e03c91ecd201880bc6b1706f19
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Sep 23 22:28:55 2010 +0300
+
+   ARM: added 'neon_composite_add_0565_8_0565' fast path
+
+   == before ==
+
+   add_0565_8_0565 = L1: 14.05 L2: 14.03 M: 11.57 (12.94%)
+   HT: 8.31   VT: 8.10   R: 7.47 RT: 3.64 (42Kops/s)
+
+   == after ==
+
+   add_0565_8_0565 = L1: 123.36 L2: 94.70 M: 74.36 (83.15%)
+   HT: 31.17   VT: 23.97 R: 21.06 RT: 6.42 (70Kops/s)
+
+commit 2f6c7b4f9d36261d2efe494a925faf063376ba30
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:
  Fri May 21 16:31:03 2010 +0300
+
+   ARM: NEON: added forgotten cache preload for over_n_8888/over_n_0565
+
+   Prefetch provides up to 40-50% better performance when working
+   with large images and/or when having lots of L2 cache misses
+   on ARM Cortex-A8 @ 720MHz:
+
+   == before ==
+
+   over_n_8888 = L1: 225.83 L2: 181.02 M: 55.57 (41.41%)
+   HT: 38.96   VT: 36.92   R: 32.84 RT: 14.15 (123Kops/s)
+
+   over_n_0565 = L1: 153.91 L2: 149.69 M: 83.17 (30.95%)
+   HT: 50.41   VT: 49.15   R: 40.56 RT: 15.45 (131Kops/s)
+
+   == after ==
+
+   over_n_8888 = L1: 222.39 L2: 170.95 M: 76.86 (57.27%)
+   HT: 58.80   VT: 53.03   R: 45.51 RT: 14.13 (124Kops/s)
+
+   over_n_0565 = L1: 151.87 L2: 149.54 M:125.63 (46.80%)
+   HT: 67.85   VT: 57.54   R: 50.21 RT: 15.32 (130Kops/s)
+
+commit b924bb1f8191cc7c386d8211d9822aeeaadcab44
+Author:
 Mika Yrjola <mika.yrjola@movial.com>
+Date: Fri Oct 1 16:17:50 2010 +0300
+

+   Fix "syntax error: empty declaration" warnings.
+
+   These minor changes should fix a large number of
+   macro declaration - related "syntax error: empty declaration" warnings
+   which are seen while compiling the code with the Solaris Studio
+   compiler.
+
+commit 73c1fefa1b99efa36b74599f455df9426209378e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 28 00:51:07 2010 -0400
+
+   Delete simple repeat code
+
+   This was supposedly an optimization, but it has pathological cases
+   where it definitely isn't. For example a 1 x n image will cause it to
+   have terrible memory access patterns and to generate a ton of modulus
+   operations.
+
+   Since no one has ever measured whether it actually is an improvement,
+   and since it is doing the repeating at the wrong the stage in the
+   pipeline, and since with the previous commit it can't be triggered
+
    anymore because we now require SAMPLES_COVER_CLIP for regular fast
+   paths, just delete it.
+
+commit a4d1c9d3831751008db61a48d6a6cb12ed33f314
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 28 00:42:25 2010 -0400
+
+   Fix bug in FAST_PATH_STD_FAST_PATH
+
+   The standard fast paths deal with two kinds of images: solids and
+   bits. These two image types require different flags, but
+   PIXMAN_STD_FAST_PATH uses the same ones for both.
+
+   This patch makes it so that solid images just get the standard flags,
+   while bits images must be untransformed contain the destination clip
+   within the sample grid.
+
+   This means that the old FAST_PATH_COVERS_CLIP flag is now not used
+   anymore, so it can be deleted.
+
+commit 10e13135c3538f0909f27eaacc17e9e13f199a7c
+Author: Dmitri Vorobiev <dmitri.vorobiev@movial.com>
+Date: Tue Sep 28 14:42:02 2010 +0300
+
+   Some clean-ups in fence_malloc() and fence_free()
+

+   This patch removes
 an unnecessary typecast of MAP_FAILED,
+   replaces an erroneous free() by the correct munmap() in the
+   error path for a failing mprotect(), and, finally, removes
+   redundant calls to mprotect() that aren't necessary, because
+   munmap() doesn't call for any specific memory protection.
+
+commit ba693d2e88b6f4c871d804fb62d7435915c85dfc
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 28 02:52:02 2010 -0400
+
+   Fix search-and-replace issue in lowlevel-blt-bench.c
+
+commit 77d3e5f6ff719f53398b5675e5219d0e3b9746c1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Sep 17 09:21:09 2010 -0400
+
+   Rename all the fast paths with _8000 in their names to _8
+
+   This inconsistent naming somehow survived the refactoring from a while
+   back.
+
+commit ba69989374fe9cbe5151c5aac7b824da0806f94a
+Author: Liu Xinyun <xinyun.liu@intel.com>
+Date: Sat Sep 25 14:56:38 2010 +0800
+
+   Remove cache prefetch code.
+
+   The performance is
 decreased with cache prefetch, especially for
+   ATOM. So remove these code. Following is the experiment.
+
+   old: 0.19.5-with-cache-prefetch
+   new: 0.19.5-without-cache-prefetch
+
+   CPU: Intel Atom N270@1.6GHz
+   OS: MeeGo (32 bits)
+   Speedups
+   ========
+   image-rgba   poppler-0   17125.68 (17279.58 0.92%) -> 14765.36 (15926.49 3.54%): 1.16x speedup
+   image-rgba   ocitysmap-0   9008.25 (9040.41 7.50%) -> 8277.94 (8343.09 5.44%): 1.09x speedup
+   image-rgba   xfce4-terminal-a1-0   18020.76 (18230.68 0.97%) -> 16703.77 (16712.42 1.22%): 1.08x
speedup
+   image-rgba   gnome-terminal-vim-0   25081.38 (25133.38 0.24%) -> 23407.47 (23652.98 0.54%): 1.07x
speedup
+   image-rgba   firefox-talos-gfx-0   57916.97 (57973.20 0.11%) -> 54556.64 (54624.55 0.39%): 1.06x
speedup
+   image-rgba   firefox-planet-gnome-0   102377.47 (103496.63 0.70%) -> 96816.65 (97075.54 0.15%): 1.06x

```
speedup
+
  image-rgba        swfdec-giant-steps-0    12376.24 (12616.84 1.02%) -> 11705.30 (11825.20 1.06%):  1.06x
speedup
+
+   CPU: Intel Core(TM)2 Duo CPU T9600@2.80GHz
+   OS: Ubuntu 10.04 (64bits)
+   Speedups
+   ========
+   image-rgba                ocitysmap-0    2671.46 (2691.82 8.55%) -> 2296.20 (2307.26 5.77%):  1.16x speedup
+   image-rgba        swfdec-giant-steps-0    1614.55 (1615.18 1.68%) -> 1532.84 (1538.52 0.72%):  1.05x speedup
+
+   Signed-off-by: Liu Xinyun <xinyun.liu@intel.com>
+   Signed-off-by: Chen Miaobo <miaobo.chen@intel.com>
+
+commit 56777f3f675869806cd30bcd21a5b39d788507cb
+Author: Dmitri Vorobiev <dmitri.vorobiev@movial.com>
+Date:   Wed Sep 22 12:34:57 2010 +0300
+
+   Use <sys/mman.h> macros only when they are available
+
+   Not all systems are regular Unices, so let's be careful with the
+   mmap()-related stuff, which might be unavailable. This patch makes
+   sure that mmap() and friends is used only when the <sys/mman.h>
+
  header is found.
+
+commit 39524a4687391c68f4177e8671f4b2bd39e05850
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Tue Sep 21 14:20:43 2010 -0400
+
+   Revert "add enable-cache-prefetch option"
+
+   Revert this accidentally committed patch.
+
+   This reverts commit 19ea0e16b958e5abe491365c203293ab372f3586.
+
+commit e97da2104967f4c99aed40e89f3e0141ceed7040
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Tue Sep 21 14:12:00 2010 -0400
+
+   If MAP_ANONYMOUS is not defined, define it to MAP_ANON.
+
+   This hopefully fixes the build failure on OS X.
+
+commit 19ea0e16b958e5abe491365c203293ab372f3586
+Author: Liu Xinyun <xinyun.liu@intel.com>
+Date:   Wed Sep 22 00:15:10 2010 +0800
```

+
+ add enable-cache-prefetch option
+
+ OK. here is the work to clear all cache prefetch. Please review it. 3x
+
+ On Tue, Sep 21, 2010 at 11:36:30PM +0800, Soeren Sandmann wrote:
+ > Liu Xinyun <xinyun.liu@intel.com> writes:
+ >
+ > > This
patch is to add a new configuration option: enable-cache-prefetch,
+ > > which is default yes.
+ > >
+ > > Here is a link which talks on cache issue.
+ > > http://lists.freedesktop.org/archives/pixman/2010-June/000218.html
+ > >
+ > > When disable it on Atom CPU(configured with --enable-cache-prefetch=no),
+ > > it will have a little performance gain. Here is the patch.
+ >
+ > I think the cache prefetch code should just be deleted outright. No
+ > benchmarks that I'm aware of show it to be an improvement.
+ >
+ >
+ > Thanks,
+ > Soren
+
+ >From bca2192ef524bcae4eea84d0ffed9e8c4855675f Mon Sep 17 00:00:00 2001
+ From: Liu Xinyun <xinyun.liu@intel.com>
+ Date: Wed, 22 Sep 2010 00:11:56 +0800
+ Subject: [PATCH] remove cache prefetch
+
+commit edd173396604b052fd76971d0efa0c8db40cf1f3
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 21 10:18:44 2010 -0400
+
+ Post-release version bump to 0.19.5
+
+commit
e5b3a6e7105af590d72e2ae986f9985f71cc88f5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 21 10:11:34 2010 -0400
+
+ Pre-release version bump to 0.19.4
+
+commit 0742ba41646853a5edf90c2f3102f49b248321ee
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Sep 21 10:05:52 2010 -0400
+
+ compute_composite_region32: Zero extents before returning FALSE.

+
+   If the extents of the composite region are broken such that x2 <= x1
+   or y2 <= y1, then we need to zero the extents before returning so that
+   the region won't be completely broken when calling
+   pixman_region32_fini().
+
+commit 7cd4f2fa201c4dc846153c022423e3dced2cfb13
+Author: Jonathan Morton <jonathan.morton@movial.com>
+Date: Fri Sep 17 17:52:23 2010 +0300
+
+   Add a lowlevel blitter benchmark
+
+   This test is a modified version of Siarhei's compositor throughput
+   benchmark. It's expanded with explicit reporting of memory bandwidth
+   consumption for the M-test,
 and with an additional 8x8-random test
+   intended to determine peak ops/sec capability. There are also quite a
+   lot more operations tested for.
+
+commit eab3a77877b0e850c46f95dacffb31994e6a7e41
+Author: Dmitri Vorobiev <dmitri.vorobiev@movial.com>
+Date: Fri Sep 17 17:52:22 2010 +0300
+
+   Add noinline macro
+
+   This patch adds a noinline macro, which expands to compiler-dependent
+   keywords that tell the compiler to never inline a function.
+
+commit cab3261c0da6e833d803a7f3ccab600adca7abe1
+Author: Dmitri Vorobiev <dmitri.vorobiev@movial.com>
+Date: Fri Sep 17 17:52:21 2010 +0300
+
+   Add gettime() routine to test utils
+
+   Impending benchmark code will need a function to get current time
+   in seconds, and this patch introduces such routine. We try to use
+   the POSIX gettimeofday() function when available, and fall back to
+   clock() when not.
+
+commit fd3c87d460a6d1803880d17af416cce344a086c4
+Author: Dmitri Vorobiev <dmitri.vorobiev@movial.com>
+Date:
  Fri Sep 17 17:52:20 2010 +0300
+
+   Move aligned_malloc() to utils
+
+   The aligned_malloc() routine will be used in more than one test utility.
+   At least, a low-level blitter benchmark needs it. Therefore, let's make

+   this function a part of common test utilities code.
+
+commit f474783607e51183d31814972d0f055907876079
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 16 10:33:23 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_normal_r5g6b5
+
+commit 91521d30ab9b033a35fb7797e4566d575ad1c1dc
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 16 10:33:10 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_reflect_r5g6b5
+
+commit 372d7b954aee4f3a2ad94ed8484a2b4084db0c7c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 16 10:33:00 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_none_r5g6b5
+
+commit a826ae0e3a0279557e892856ef1333971b105d01
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Thu Sep 16 10:32:44 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_pad_r5g6b5
+
+commit c5238bd1809433af5b0efc3add23c1ccb4da884c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 16 10:32:27 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_normal_a8
+
+commit d12daefcdb8845e539309df46b08916829a86d9c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 16 10:32:12 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_reflect_a8
+
+commit 9388be32932898ed424c8916a57a6201f995416b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 16 10:31:57 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_none_a8
+
+commit 8e4d4e8d110c379cb85f53752660c6b2fab33d5e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 16 10:31:45 2010 -0400

+
+   Enable bits_image_fetch_bilinear_affine_pad_a8
+
+commit ce1f6c50b4ddf8f7c48a3b272c19d281beca4b34
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Sat Aug 28 02:41:20 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_normal_x8r8g8b8
+
+commit 83f2ee3e958a02fc85a2dc6eddc048b63d74cd5c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 28 02:41:08 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_reflect_x8r8g8b8
+
+commit be37ae331c6e5e9539b0c1eac6e196366532df29
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 28 02:40:56 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_none_x8r8g8b8
+
+commit 5f8a9bebc04deb55de79e7443578779a93b8cfa6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 28 02:40:46 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_pad_x8r8g8b8
+
+commit c59584cb862ef8774a2ef1eabb87fef18506d10f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 28 02:40:16 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_normal_a8r8g8b8
+
+commit 2292cff304fd5aad6dbcc86342a57ea523136de6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Sat Aug 28 02:40:03 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_reflect_a8r8g8b8
+
+commit 8b29162693adc30dbb5c0f60098d2853c3942c36
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 28 02:39:51 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_none_a8r8g8b8
+
+commit e8555874e122f6e113f85e37059932457ee509cb

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 28 02:39:37 2010 -0400
+
+   Enable bits_image_fetch_bilinear_affine_pad_a8r8g8b8
+
+commit f9778c15e9c01c02e0002edfc4d4a1d517d14d87
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun May 23 04:44:33 2010 -0400
+
+   Use a macro to generate some {a,x}8r8g8b8, a8, and r5g6b5 bilinear fetchers.
+
+   There are versions for all combinations of x8r8g8b8/a8r8g8b8 and
+   pad/repeat/none/normal repeat modes. The bulk of each scaler is an
+   inline function that takes a format and a repeat mode as parameters.
+
+   The new scalers are all
 commented out, but the next commits will
+   enable them one at a time to facilitate bisecting.
+
+commit 6d1e10a8b5c456ee501a309f5cf2f801efcf63b0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jul 14 16:27:27 2010 -0400
+
+   test: Add affine-test
+
+   This test tests compositing with various affine transformations. It is
+   almost identical to scaling-test, except that it also applies a random
+   rotation in addition to the random scaling and translation.
+
+commit 4fa33537d7093ac759b7ded1718a628dacd2aff4
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Sep 12 06:07:41 2010 -0400
+
+   analyze_extents: Fast path for non-transformed BITS images
+
+   Profiling various cairo traces showed that we were spending a lot of
+   time in analyze_extents and compute_sample_extents(). This was
+   especially bad for glyphs where all this computation was completely
+   unnecessary.
+
+   This patch adds a fast path for the case of non-transformed
 BITS
+   images. The result is approximately a 6% improvement on the
+   firefox-talos-gfx benchmark:
+
+   Before:
+
+   [#] backend   test   min(s) median(s) stddev. count

```
+   [ 0]   image          firefox-talos-gfx   13.797   13.848   0.20%    6/6
+
+   After:
+
+   [ # ]  backend                test   min(s) median(s) stddev. count
+   [ 0]   image          firefox-talos-gfx   12.946   13.018   0.39%    6/6
+
+commit c97881fe3c3a0af78cf5953d2c135654440b0269
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Thu Sep 16 08:35:05 2010 -0400
+
+   Move some of the FAST_PATH_COVERS_CLIP computation to pixman-image.c
+
+   When an image is solid or repeating, the FAST_PATH_COVERS_CLIP flag
+   can be set in compute_image_info().
+
+   Also the code that turned this flag off in pixman.c was not correct;
+   it didn't take transformations into account. With this patch, pixman.c
+   doesn't set
 the flag by default, but instead relies on the call to
+   compute_samples_extents() to set it when possible.
+
+commit 3411f9399c3ab6d642f350ea8e4c355f719d01d9
+Author: Tor Lillqvist <tml@iki.fi>
+Date:   Wed Sep 15 11:53:47 2010 -0400
+
+   Support __thread on MINGW 4.5
+
+   By the way, it seems that with gcc 4.5.0 from mingw.org, __thread, sse
+   and mmx work fine.
+
+   I added the below to pixman 0.18 and as far as I can see, it works.
+   make check reports no problems. (Earlier I had to use --disable-mmx
+   and --disable-sse2.) Also gtk-demo and gimp run fine.
+
+   (Also a change to get rid of the warnings about -fvisibility being ignored.)
+
+commit add0fd1bac84a5b6dddf7632b4100d6b3f2ebc18
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:   Sun Aug 29 22:46:09 2010 -0400
+
+   Clip composite region against the destination alpha map extents.
+
+   Otherwise we can end up writing outside the alpha map.
+
+commit af2f0080feada1abe569e2031acacf51be7f8f68
+Author:
```

 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 29 17:07:40 2010 -0400
+
+   Remove FAST_PATH_NARROW_FORMAT flag if there is a wide alpha map
+
+   If an image has an alpha map that has wide components, then we need to
+   use 64 bit processing for that image. We detect this situation in
+   pixman-image.c and remove the FAST_PATH_NARROW_FORMAT flag.
+
+   In pixman-general, the wide/narrow decision is now based on the flags
+   instead of on the formats.
+
+commit 0afc61341526887c59d6dd9e43073f73451a74c6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 29 17:03:01 2010 -0400
+
+   Rename FAST_PATH_NO_WIDE_FORMAT to FAST_PATH_NARROW_FORMAT
+
+   This avoids a negative in the name. Also, by renaming the "wide"
+   variable in pixman-general.c to "narrow" and fixing up the logic
+   correspondingly, the code there reads a lot more straightforwardly.
+
+commit ae77548f0d9ca95a86a466fc4ff099e000716067
+Author: Søren Sandmann
 Pedersen <ssp@redhat.com>
+Date: Sun Aug 29 16:59:02 2010 -0400
+
+   Update and extend the alphamap test
+
+   - Test many more combinations of formats
+
+   - Test destination alpha maps
+
+   - Test various different alpha origins
+
+   Also add a transformation to the destination, but comment it out
+   because it is actually broken at the moment (and pretty difficult to
+   fix).
+
+commit dc9fe269ea2a1a0b8334d0936e2541af48b81bc7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Sep 13 14:34:34 2010 -0400
+
+   Add fence_malloc() and fence_free().
+
+   These variants of malloc() and free() try to surround the allocated
+   memory with protected pages so that out-of-bounds accessess will cause
+   a segmentation fault.

+
+   If mprotect() and getpagesize() are not available, these functions are
+   simply equivalent to malloc() and free().
+
+commit f4dc73bad4f662bdc3c94cb1e224f9a1989beba5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
   Sun Sep 12 04:35:08 2010 -0400
+
+   Do opacity computation with shifts instead of comparing with 0
+
+   Also add a COMPILE_TIME_ASSERT() macro and use it to assert that the
+   shift is correct.
+
+commit 517a77a992255cb6dae7e74bc6f6b9ac21003ac1
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Sep 8 09:16:12 2010 +0300
+
+   SSE2 optimization for scaled over_8888_8888 operation with nearest filter
+
+   This is the first demo implementation, it should be possible to
+   generalize it later to cover more operations with less lines of code.
+
+   It should be also possible to introduce the use of '__builtin_constant_p'
+   gcc builtin function for an efficient way of checking if 'unit_x' is known
+   to be zero at compile time (when processing padding pixels for NONE, or
+   PAD repeat).
+
+   Benchmarks from Intel Core i7 860:
+
+   == before (nearest OVER) ==
+   op=3, src_fmt=20028888, dst_fmt=20028888, speed=142.01
 MPix/s
+
+   == after (nearest OVER) ==
+   op=3, src_fmt=20028888, dst_fmt=20028888, speed=314.99 MPix/s
+
+   == performance of nonscaled operation as a reference ==
+   op=3, src_fmt=20028888, dst_fmt=20028888, speed=652.09 MPix/s
+
+commit abc90dad57f03bf9293fc825835c6f0fddc6771b
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Sep 16 18:25:40 2010 +0300
+
+   NONE repeat support for fast scaling with nearest filter
+
+   Implemented very similar to PAD repeat.
+

+   And gcc also seems to be able to completely eliminate the
+   code responsible for left and right padding pixels for OVER
+   operation with NONE repeat.
+
+commit 45833d5b198507e9e69b918459eaaf6088e5de00
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Sep 16 17:10:40 2010 +0300
+
+   PAD repeat support for fast scaling with nearest filter
+
+   When processing pixels from the left and right padding, the same
+   scanline function is used
 with 'unit_x' set to 0.
+
+   Actually appears that gcc can handle this quite efficiently. When
+   using 'restrict' keyword, it is able to optimize the whole operation
+   performed on left or right padding pixels to a small unrolled loop
+   (the code is reduced to a simple fill implementation):
+
+   9b30:   89 08   mov   %ecx,(%rax)
+   9b32:   89 48 04   mov   %ecx,0x4(%rax)
+   9b35:   48 83 c0 08   add $0x8,%rax
+   9b39:   49 39 c0   cmp   %rax,%r8
+   9b3c: 75 f2   jne   9b30
+
+   Without 'restrict' keyword, there is one instruction more: reloading
+   source pixel data from memory in the beginning of each iteration. That
+   is slower, but also acceptable.
+
+commit 3db0cc5c75a4a764726059511fa6d67082fbeb64
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Sep 17 16:22:25 2010 +0300
+
+   Introduce a fake PIXMAN_REPEAT_COVER
 constant
+
+   We need to implement a true PIXMAN_REPEAT_NONE support later (padding
+   the source with zero pixels). So it's better not to use PIXMAN_REPEAT_NONE
+   for handling FAST_PATH_SAMPLES_COVER_CLIP special case.
+
+commit e9b0740af76853f58df72cd40cd7cb4e2ac7261b
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Sep 16 13:02:18 2010 +0300
+
+   Nearest scaling fast path macro split into two parts
+
+   Scanline processing is now split into a separate function. This provides
+   an easy way of overriding it with a platform specific implementation,

+   which may use SIMD optimizations. Only basic C data types are used as
+   the arguments for this function, so it may be implemented entirely in
+   assembly or be generated by some JIT engine.
+
+   Also as a result of this split, the complexity of code is reduced a
+   bit and now it should be easier to introduce support for the currently
+   missing NONE, PAD and REFLECT
 repeat types.
+
+commit 066ce191a6d3bb970b5024c070193cac4c130418
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Sep 16 12:31:27 2010 +0300
+
+   Nearest scaling fast path macros moved to 'pixman-fast-path.h'
+
+   These macros with some modifications can can be reused later by
+   various platform specific implementations, introducing SIMD
+   optimizations for nearest scaling fast paths.
+
+commit fb819c0e93b301757f8549cf7738c2b8c356ee7e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 29 16:26:45 2010 -0400
+
+   Add FAST_PATH_NO_ALPHA_MAP to the standard destination flags.
+
+   We can't in general take a fast path if the destination has an alpha
+   map.
+
+commit ba6c98fc4b8f0ee02b846fd31c7e93e18e92d0af
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Sep 9 12:02:59 2010 +0300
+
+   test: detection of possible floating point registers corruption
+
+   Added a pair of macros which can help to detect
 corruption
+   of floating point registers after a function call. This may
+   happen if _mm_empty() call is forgotten in MMX/SSE2 fast
+   path code, or ARM NEON assembly optimized function
+   forgets to save/restore d8-d15 registers before use.
+
+commit e470c0dc5bcbf1e153bf035a823a7bdf629e6e25
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Sep 7 01:15:57 2010 +0300
+
+   ARM: added 'neon_composite_over_0565_8_0565' fast path
+
+commit a5bf7c3b1a103c6b676c864df009b1f0ad3f8195

+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Sep 7 01:10:43 2010 +0300
+
+   ARM: helper macros for conversion between 8888/x888/0565 formats
+
+commit 8e299702f315fc1f0f97ab93d905ed5d9c41410e
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Sep 7 01:05:44 2010 +0300
+
+   ARM: common init/cleanup macro for saving/restoring NEON registers
+
+   This is a typical prologue/epilogue for many NEON fast path functions, so
+   it makes
 sense to provide common reusable macros for it in the header file.
+
+commit e29d9dfcb5935777333f6239b95c18c3da697ab2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Sep 2 19:43:08 2010 -0400
+
+   Silence some warnings about uninitialized variables
+
+   Neither were real problems, but GCC was complaining about them.
+
+commit 27f7852b5ac8d137c917e653fb7113f419a4c77a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Aug 31 00:30:54 2010 -0400
+
+   When pixman_compute_composite_region32() returns FALSE, don't fini the region.
+
+   The rule is that the region passed in must be initialized and that the
+   region returned will still be valid. Ie., the lifecycle is the
+   responsibility of the caller, regardless of what the function returns.
+
+   Previously, compute_composite_region32() would finalize the region and
+   then return FALSE, and then the caller would finalize the region
+   again, leading to memory corruption in some cases.
+
+commit
 df6dbc90248a41b5b8362010e5b8d34358688786
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 30 00:16:07 2010 -0400
+
+   Store a2b2g2r2 pixel through the WRITE macro
+
+   Otherwise, accessor functions won't work.
+
+commit f42419a3e493bb325163a711fe50296c4c948edd
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>

+Date: Mon Aug 23 18:24:32 2010 +0300
+
+   ARM: added 'neon_composite_over_8888_8_0565' fast path
+
+commit 765bde32e0a2e81fbbe15acc0f491695ba2726e8
+Author: Maarten Bosmans <mkbosmans@gmail.com>
+Date: Mon Aug 30 08:55:00 2010 +0200
+
+   Add *.exe to .gitignore
+
+commit 85964082618fc5350cafcd22b48ba1e02cbc4276
+Author: Maarten Bosmans <mkbosmans@gmail.com>
+Date: Sun Aug 29 06:28:42 2010 +0200
+
+   Use windows.h directly for mingw32 build
+
+   This patch adresses the issue discussed in
+   http://lists.freedesktop.org/archives/pixman/2010-April/000163.html
+
+   There were only two clashing identifiers. The first
 one is IN, which
+   obviously causes problems in Pixman for lines like
+
+   PIXMAN_STD_FAST_PATH (IN, solid, a8, a8, fast_composite_in_n_8_8),
+
+   Fortunately the mingw headers provide a solution: by defining
+   _NO_W32_PSEUDO_MODIFIERS, these stupid symbols are skipped.
+
+   The other name is UINT64, used in pixman-mmx.c. I renamed that
+   function to to_uint64, but may be another name is more appropriate.
+
+commit 5b99710042e812d294f571ad6d86fb003a8071e3
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 23 09:27:38 2010 -0400
+
+   Be more paranoid about checking for GTK+
+
+   From time to time people run into issues where the configure script
+   detects GTK+ when it is either not installed, or not functional due to
+   a missing pixman. Most recently:
+
+   https://bugs.freedesktop.org/show_bug.cgi?id=29736
+
+   This patch makes the configure script more paranoid by
+
+   - always using PKG_CHECK_MODULES
 and not PKG_CHECK_EXISTS, since it
+   seems PKG_CHECK_EXISTS will sometimes return true even if a dependency

+ of GTK+, such as pixman-1, is missing.
+
+ - explicitly checking that pixman-1 is installed before enabling GTK+.
+
+ Cc: my.somewhat.lengthy.loginname@gmail.com
+
+commit 5530bcab26508f38a25d2afffa7fef20f35a68e1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Aug 22 11:09:45 2010 -0400
+
+ Merge pixman_image_composite32() and do_composite().
+
+ There is not much point having a separate function that just validates
+ the images. Also add a boolean return to lookup_composite_function()
+ so that we can return if no composite function is found.
+
+commit a8ea889e5e3029c2aad0e54e849783242daca274
+Author: Benjamin Otte <otte@redhat.com>
+Date: Mon Aug 23 18:20:09 2010 +0200
+
+ region: Fix pixman_region_translate() clipping bug
+
+ Fixes the region-translate test case by clipping region translations to
+ the newly
 defined PIXMAN_REGION_MIN/MAX and using the newly introduced
+ type overflow_int_t to check for the overflow.
+ Also uses INT16_MAX or INT32_MAX for these values instead of relying on
+ the size of short and int types.
+
+commit 4d8fb1bc01654ba0d331e6aea8127920e8cdf0b8
+Author: Benjamin Otte <otte@redhat.com>
+Date: Tue Aug 24 12:17:18 2010 +0200
+
+ region: Add a new test region-translate
+
+ This test exercises a bug in pixman_region32_translate(). The function
+ clips the region to int16 coordinates SHRT_MIN/SHRT_MAX.
+
+commit 5ff359b8a0a4573722b1cba141b8f00cf24b6f09
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 21 06:39:44 2010 -0400
+
+ Post-release version bump to 0.19.3
+
+commit 39308ed3b07afb92140770007124b7e544b83090
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Aug 21 06:33:19 2010 -0400
+

+ Pre-release version bump to 0.19.2
+
+commit 393ccab74e9aa466e2fdd91319012e2c18f4ef84
+Author: Søren Sandmann Pedersen
<ssp@redhat.com>
+Date: Mon Aug 16 07:24:48 2010 -0400
+
+ Only try to compute the FAST_SAMPLES_COVER_CLIP for bits images
+
+ It doesn't make sense in other cases, and the computation would make
+ use of image->bits.{width,height} which lead to uninitialized memory
+ accesses when the image wasn't of type BITS.
+
+commit da6f33a798bf2ea10df610ccf1d9506d63d1a28c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Aug 9 20:54:49 2010 -0400
+
+ Introduce new FAST_PATH_SAMPLES_OPAQUE flag
+
+ This flag is set whenever the pixels of a bits image don't have an
+ alpha channel. Together with FAST_PATH_SAMPLES_COVER_CLIP it implies
+ that the image effectively is opaque, so we can do operator reductions
+ such as OVER->SRC.
+
+commit 4e5d6f00bf409259ff6f5d5c3ef4b016146bcbb3
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 4 17:51:49 2010 -0400
+
+ pixman_image_set_alpha_map(): Disallow alpha map cycles
+
+ If someone
tries to set an alpha map that itself has an alpha map,
+ simply return. Also, if someone tries to add an alpha map to an image
+ that is being _used_ as an alpha map, simply return.
+
+ This ensures that an alpha map can never have an alpha map.
+
+commit 9fe7d32c4b704a10e780444530eaea28b4351110
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 4 17:55:14 2010 -0400
+
+ Add alpha-loop test program
+
+ This tests what happens if you attempt to make an image with an alpha
+ map that has the image as its alpha map. This results in an infinite
+ loop in _pixman_image_validate(), so the test sets up a SIGALRM to
+ exit if it runs for more than five seconds.
+

+commit 8a5d1be1dab799ed23239f3471b4a351d8356368
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon May 31 19:24:43 2010 +0300
+
+   ARM: 'neon_combine_out_reverse_u' combiner
+
+   This operation was seen in mozilla browser profiling logs.
+   Implemented so
 that 'over' and 'out_reverse' operations
+   now reuse common parts of code.
+
+commit 731e9feaa6988f99e1e38e1b92ed1f15ba706da5
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Mar 19 12:21:32 2010 +0200
+
+   Code simplification (no need advancing 'vx' at the end of scanline)
+
+commit 41584f8fe140b7374a5ef5d437b070c1f32763bb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jul 2 14:14:21 2010 -0400
+
+   Store the various bits image fetchers in a table with formats and flags.
+
+   Similarly to how the fast paths are done, put the various bits_image
+   fetchers in a table, so that we can quickly find the best one based on
+   the image's flags and format.
+
+commit 8e33643f44c397a37b822a95e071880d9a8e792a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jul 2 12:53:56 2010 -0400
+
+   Add some new FAST_PATH flags
+
+   The flags are:
+
+   * AFFINE_TRANSFORM, for affine transforms
+
+   * Y_UNIT_ZERO, for
 when the 10 entry in the transformation is zero
+
+   * FILTER_BILINEAR, for when the image has a bilinear filter
+
+   * NO_NORMAL_REPEAT, for when the repeat mode is not NORMAL
+
+   * HAS_TRANSFORM, for when the transform is not NULL
+
+   Also add some new FAST_PATH_REPEAT_* macros. These are just shorthands
+   for the image not having any of the other repeat modes. For example

+ REPEAT_NORMAL is (NO_NONE | NO_PAD | NO_REFLECT).
+
+commit 6f62231d1580f5b67f36ec81b6c59a7e2f4978cb
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jul 2 12:45:44 2010 -0400
+
+ Remove "_raw_" from all the accessors.
+
+ There are no non-raw accessors anymore.
+
+commit 807fd3c08491c8baffaad993d8b867141fa55319
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jul 2 12:34:42 2010 -0400
+
+ Eliminate the store_scanline_{32,64} function pointers.
+
+ Now that we can't recurse on alpha maps, they are not needed anymore.
+
+commit
e213d5fd6207873638a86d908d06d7597cb88422
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jul 2 12:31:50 2010 -0400
+
+ Split bits_image_fetch_transformed() into two functions.
+
+ One function deals with the common affine, no-alpha-map case. The
+ other deals with perspective transformations and alpha maps.
+
+commit cbb2a0d7929ec27e0a135d7fa11e1acf3942bce2
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jul 2 12:11:44 2010 -0400
+
+ Eliminate get_pixel_32() and get_pixel_64() from bits_image.
+
+ These functions can simply be passed as arguments to the various pixel
+ fetchers. We don't need to store them. Since they are known at compile
+ time and the pixel fetchers are force_inline, this is not a
+ performance issue.
+
+ Also temporarily make all pixel access go through the alpha path.
+
+commit 6480c92312e1fb6662ad0d10940660a9439667ea
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Jul 2 11:58:23 2010
-0400
+
+ Eliminate recursion from alpha map code
+

+ Alpha maps with alpha maps are no longer supported. It's not a useful
+ feature and it could could lead to infinite recursion.
+
+commit 1cc750ed92a936d84b47cac696aaffd226e1c02e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jul 22 04:27:45 2010 -0400
+
+ Replace compute_src_extent_flags() with analyze_extents()
+
+ This commit fixes two separate problems: 1. Incorrect computation of
+ the FAST_PATH_SAMPLES_COVER_CLIP flag, and 2. FAST_PATH_16BIT_SAFE is
+ a nonsensical thing to compute.
+
+ == 1. Incorrect computation of SAMPLES_COVER_CLIP:
+
+ Previously we were using pixman_transform_bounds() to compute which
+ source samples would be used for a composite operation. This is
+ incorrect for several reasons:
+
+ (a) pixman_transform_bounds() is transforming the integer bounding box
+ of the destination samples, where it should be transforming the
+ bounding
box of the samples themselves. In other words, it is too
+ pessimistic in some cases.
+
+ (b) pixman_transform_bounds() is not rounding the same way as we do
+ during sampling. For example, for a NEAREST filter we subtract
+ pixman_fixed_e before rounding off to the nearest sample so that a
+ transformed value of 1 will round to the sample at 0.5 and not to the
+ one at 1.5. However, pixman_transform_bounds() would simply truncate
+ to 1 which would imply that the first sample to be used was the one at
+ 1.5. In other words, it is too optimistic in some cases.
+
+ (c) The result of pixman_transform_bounds() does not account for the
+ interpolation filter applied to the source.
+
+ == 2. FAST_PATH_16BIT_SAFE is nonsensical
+
+ The FAST_PATH_16BIT_SAFE is a flag that indicates that various
+ computations can be safely done within a 16.16 fixed-point
+ variable. It was used by certain fast paths who relied on those
+ computations
succeeding. The problem is that many other compositing
+ functions were making similar assumptions but not actually requiring
+ the flag to be set. Notably, all the general compositing functions
+ simply walk the source region using 16.16 variables. If the
+ transformation happens to overflow, strange things will happen.
+

+ So instead of computing this flag in certain cases, it is better to
+ simply detect that overflows will happen and not try to composite at
+ all in that case. This has the advantage that most compositing
+ functions can be written naturally way.
+
+ It does have the disadvantage that we are giving up on some cases that
+ previously worked, but those are all corner cases where the areas
+ involved were very close to the limits of the coordinate
+ system. Relying on these working reliably was always a somewhat
+ dubious proposition. The most important case that might have worked
+ previously was untransformed
 compositing involving images larger than
+ 32 bits. But even in those cases, if you had REPEAT_PAD or
+ REPEAT_REFLECT turned on, you would hit bits_image_fetch_transformed()
+ which has the 16 bit limitations.
+
+ == Fixes
+
+ This patch fixes both problems by introducing a new function called
+ analyze_extents() that has the responsibility to reject corner cases,
+ and to compute flags based on the extents.
+
+ It does this through a new compute_sample_extents() function that will
+ compute a conservative (but tight) approximation to the bounding box
+ of the samples that will actually be needed. By basing the computation
+ on the positions of the _sample_ locations in the destination, and by
+ taking the interpolation filter into account, it fixes problem one.
+
+ The same function is also used with a one-pixel expanded version of
+ the destination extents. By checking if the transformed bounding box
+ will overflow 16.16
 fixed point, it fixes problem two.
+
+commit 5b289d39cfd5e5cd8b1e0a7b654574ed3e7e90ac
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jul 28 02:11:08 2010 -0400
+
+ Extend scaling-crash-test in various ways
+
+ This extends scaling-crash-test to test some more things:
+
+ - All combinations of NEAREST/BILINEAR/CONVOLUTION filters and
+   NORMAL/PAD/REFLECT repeat modes.
+
+ - Tests various scale factors very close to 1/7th such that the source
+   area is very close to edge of the source image.
+
+ - The same things, only with scale factors very close to 1/32767th.

+
+ - Enables the commented-out tests for accessing memory outside the
+ source buffer.
+
+ Also there is now a border around the source buffer which has a
+ different color than the source buffer itself so that if we sample
+ outside, it will show up.
+
+ Finally, the test now allows the destination buffer to not be changed
+ at all. This
allows pixman to simply bail out in cases where the
+ transformation too strange.
+
+commit 71ff55a3e567ace21e9120f826270253e7ec5edd
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Aug 5 19:00:56 2010 -0400
+
+ Fix Altivec/OpenBSD patch
+
+ As Brad pointed out, I pushed the wrong version of this patch.
+
+commit cb50e9cc95a780a5e60d557f2aa23d82d2280b73
+Author: Brad Smith <brad@comstyle.com>
+Date: Sat Jul 31 05:07:02 2010 -0400
+
+ Add support for AltiVec detection for OpenBSD/PowerPC.
+
+ Bug 29331.
+
+commit 664132128ec430e28dad9f8088a3f6f2a1903f8e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 4 09:50:30 2010 -0400
+
+ CODING_STYLE: Delete the stuff about trailing spaces
+
+ Also fix various other minor issues.
+
+commit cc9221ce96c23f6d6f1a17d98e5221e3aeff6567
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jul 28 03:17:35 2010 -0400
+
+ If we bail out of do_composite, make sure to undo any workarounds.
+

+ The workaround for an old X bug has to be undone if we bail from
+ do_composite, so we can't just return.
+
+commit b243a66041456dba278b04f813deac4f99bbe621

+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Aug 4 08:58:51 2010 -0400
+
+   Add x14r6g6b6 format to blitters-test
+
+commit d6a7b1542448e7ee41f2c2a129bd0af2668185bb
+Author: Marek Vasut <marek.vasut@gmail.com>
+Date: Sun Aug 1 02:18:52 2010 +0200
+
+   Add support for 32bpp X14R6G6B6 format.
+
+   This format is used on PXA framebuffer with some boards. It uses only 18 bits
+   from the 32 bit framebuffer to interpret color.
+
+   Signed-off-by: Marek Vasut <marek.vasut@gmail.com>
+
+commit 226a6df4f947f718d82e85ca53561a968ec0c0a1
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Jul 14 16:43:16 2010 +0300
+
+   test: 'scaling-test' updated to provide better coverage
+
+   Negative scale factors are now also tested. A small additional
+   translate
 transform helps to stress the use of fractional
+   coordinates better.
+
+   Also the number of iterations to run by default increased in order
+   to compensate increased variety of operations to be tested.
+
+commit af3eeaeb1352148ca671a45768d11160fcfd8567
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Jul 19 20:25:05 2010 +0300
+
+   test: 'scaling-crash-test' added
+
+   This test tries to exploit some corner cases and previously known
+   bugs in nearest neighbor scaling fast path code, attempting to
+   crash pixman or cause some other nasty effect.
+
+commit 90483fcabbd19b35ded094a6a592ee224029fd07
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jul 15 23:40:28 2010 -0400
+
+   bits: Fix potential divide-by-zero in projective code
+
+   If the homogeneous coordinate is 0, just set the coordinates to 0.
+

+commit bf125fbbb701788d5d9ed9ff368bb4fe9d9c895e
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Apr
 25 20:25:50 2010 -0400
+
+   [sse2] Add sse2_composite_add_n_8()
+
+   This shows up when epiphany displays the "ImageTest" on
+   glimr.rubyforge.org/cake/canvas.html
+
+commit 16ae3285e6601ea177637dddd20d2857d13decac
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Apr 25 19:54:28 2010 -0400
+
+   [sse2] Add sse2_composite_in_n_8()
+
+   This shows up when epiphany displays the "ImageTest" on
+   glimr.rubyforge.org/cake/canvas.html
+
+commit e0b430a13ee4619bd6d82c4ebff8a401a254e9bc
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jul 13 00:31:35 2010 -0400
+
+   [sse2] Add sse2_composite_src_x888_8888()
+
+   This operation shows up when Firefox displays
+   http://dougx.net/plunder/plunder.html
+
+commit 16bae8347529c1c976e6d7af90e0fb5811605af1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jul 13 00:08:10 2010 -0400
+
+   [fast] Add fast_composite_src_x888_8888()
+
+   This shows up on when Firefox displays http://dougx.net/plunder/plunder.html
+
+commit
 9399b1a5af69cc9890aa7918cd09318ddeefc05d
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Wed Jul 14 09:51:27 2010 +0300
+
+   Fix thinko in configure.ac's macro to test linking.
+
+   Copy-paste carnage. Renames save_{cflags,libs,ldflags} to
+   save_{CFLAGS,LIBS,LDFLAGS}.
+
+commit 5537e51cd0ffda53cc392a4bafe05070954fc36d
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>

+Date: Sun Jul 11 19:59:01 2010 +0300
+
+   Avoid trailing slashes on automake install dirs.
+
+   The install-sh on a Solaris box couldn't copy with
+   trailing slashes.
+
+commit 1d9c6fa62385c42d67926982704c398d8b495d47
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Sat Jul 10 15:36:41 2010 +0300
+
+   Check for specific flags by actually trying to compile and link.
+
+   Instead of relying on preprocessor version checks to see if a
+   some compiler flags are supported, actually try to compile and
+   link a test program
 with the flags.
+
+commit d95ae7060442712315d29c8b307df131ba9ffce6
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Sat Jul 10 02:41:01 2010 +0100
+
+   Check that the OpenMP pragmas don't cause link errors.
+
+   This patch adds extra guards around our use of
+   OpenMP pragmas and checks that the pragmas won't
+   cause link errors. This fixes the build on
+   Tru64 and Solaris with the native compilers and clang.
+
+commit eb247ac377623d2a722aab1e6eae7adab5f7ebea
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Fri Jul 9 12:09:07 2010 +0300
+
+   Don't trust OpenBSD's gcc to produce working code for __thread.
+
+   The gcc on OpenBSD 4.5 to 4.7 at least produces bad code for __thread,
+   without as much as a warning.
+
+   See PR #6410 "Using __thread TLS variables compiles ok but segfault at runtime."
+
+   http://cvs.openbsd.org/cgi-bin/query-pr-wrapper?full=yes&numbers=6410
+
+commit dbf35f1f276a673bc4a1eb932dd5cf9266f948da
+Author:
 M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Fri Jul 9 12:07:35 2010 +0300
+
+   Try harder to find suitable flags for pthreads.

+
+   The flags -D_REENTRANT -lpthread work on more systems than
+   does -pthread unfortunately, so give that a go too.
+
+commit 9897bb4eeed165b76001dfefd3a89bcb96d38a72
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jul 12 15:13:49 2010 -0400
+
+   Check for read accessors before taking the bilinear fast path
+
+   The bilinear fast path accesses pixels directly, so if the image has a
+   read accessor, then it can't be used.
+
+commit ce3d9fca73bb8abe4d5b1023cfdb06ca53b6161c
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jul 11 19:58:49 2010 -0400
+
+   fast-path: Some formatting fixes
+
+   Add spaces before parentheses; fix indentation in the macro.
+
+commit 839326e471a8a6c96dea1693501550d79043bb81
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jul 11 19:57:29 2010 -0400
+
+
    In the FAST_NEAREST macro call the function 8888_8888 and not x888_x888
+
+   The x888 suggests that they have something to do with the x8r8g8b8
+   formats, but that's not the case; they are assuming a8r8g8b8
+   formats. (Although in some cases they also work for x8r8g8b8 type
+   formats).
+
+commit e13d9f9684a47a6e0be4f8ae1a39cce8b1334238
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jul 11 19:45:22 2010 -0400
+
+   Make the repeat mode explicit in the FAST_NEAREST macro.
+
+   Before, it was 0 or 1 meaning 'no repeat' and 'normal repeat'
+   respectively. Now we explicitly pass in either NONE or NORMAL.
+
+commit 2e7fb6655334789f8a5e290245d47c8d6b221c24
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jul 10 20:47:01 2010 -0400
+
+   When converting indexed formats to 64 bits, don't correct for channel widths
+

+   Indexed formats are mapped to a8r8g8b8 with full precision, so when
+   expanding we shouldn't correct
 for the width of the channels
+
+commit 2df6dac0be678e1683223faeddadb35b1d2dbe36
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jul 10 18:40:06 2010 -0400
+
+   test: Make sure the palettes for indexed format roundtrip properly
+
+   The palettes for indexed formats must satisfy the condition that if
+   some index maps to a color C, then the 15 bit version of that color
+   must map back to the index. This ensures that the destination operator
+   is always a no-op, which seems like a reasonable assumption to make.
+
+commit 5dd59c8b7cf1543605713a2ac30f31d8726f5444
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jul 10 16:49:51 2010 -0400
+
+   Split the fast path caching into its own force_inline function
+
+   The do_composite() function is a lot more readable this way.
+
+commit 98d19d9abd9d62b8d2871871b0be74e022f1f89f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jul 10 16:08:51 2010 -0400
+
+   Cache the implementation
 along with the fast paths.
+
+   When calling a fast path, we need to pass the corresponding
+   implementation since it might contain information necessary to run the
+   fast path.
+
+commit f18bcf1f6e984c33dca30ad1ce03c58628fe39df
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jul 10 15:47:12 2010 -0400
+
+   Hide the global implementation variable behind a force_inline function.
+
+   Previously the global variable was called 'imp' which was confusing
+   with the argument to various other functions also being called imp.
+
+commit 5c935473d8a193b3510f8605a6658ea6ac998fd1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jun 30 02:31:10 2010 -0400
+
+   Fix memory leak in the pthreads thread local storage code

+
+   When a thread exits, we leak whatever is stored in thread local
+   variables, so install a destructor to free it.
+
+commit 7114b2d63bd5702c94cb8aa9401c023e550c77bc
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
   Thu Jul 1 16:54:30 2010 -0400
+
+   Make the combiner macros less likely to cause name collisions.
+
+   Protect the arguments to the combiner macros with parentheses, and
+   postfix their temporary variables with underscores to avoid name space
+   collisions with the surrounding code.
+
+   Alexander Shulgin pointed out that underscore-prefixed identifiers are
+   reserved for the C implementation, so we use postfix underscores
+   instead.
+
+commit a92e4a6a9475e07435efb60aa2fde5fa04592d89
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Jun 21 15:30:46 2010 -0400
+
+   Minor tweaks to README
+
+commit ca846806cbc4e11cd134e464c7740c1cde19422b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Jun 20 13:12:27 2010 -0400
+
+   Store the conical angle in floating point radians, not fixed point degrees
+
+   This is a slight simplification.
+
+commit 3074d57b560d5ec9be2a0e1a6846012698f51208
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
   Sat Jun 19 18:57:45 2010 -0400
+
+   Fix conical gradients to match QConicalGradient from Qt
+
+   Under the assumption that pixman gradients are supposed to match
+   QConicalgradient, described here:
+
+   http://doc.trolltech.com/4.4/qconicalgradient.html
+
+   this patch fixes two separate bugs in pixman-conical-gradient.c.
+
+   The first bug is that the output of atan2() is in the range of [-pi,

+ pi], which means the parameter into the gradient can be negative. This
+ is wrong since a QConicalGradient always interpolates around the
+ center from 0 to 1. The fix for that is to (a) make sure the given
+ angle is between 0 and 360, and (b) add or subtract 2 * M_PI if the
+ computed angle ends up outside [0, 2 * pi].
+
+ The other bug is that we were interpolating clockwise, whereas
+ QConicalGradient calls for a counter-clockwise interpolation. This is
+ easily fixed by subtracting the parameter from 1.
+

+ Finally, this patch encapsulates the computation in a new force-inline
+ function so that it can be reused in both the affine and non-affine
+ case.
+
+commit 66365b5ef1bb85863669227ae6e31134d8d57013
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun May 30 18:26:28 2010 -0400
+
+ Make separate gray scanline storers.
+
+ For gray formats the palettes are indexed by luminance, not RGB, so we
+ can't use the color storers for gray too.
+
+commit 4e1d4847c9199f96b73376bef061c6728742e621
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun May 30 16:52:09 2010 -0400
+
+ When storing a g1 pixel, store the lowest bit, rather than comparing with 0.
+
+commit 445eb6385f60d09058826b44894e17165c91381c
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Wed Jun 9 16:35:37 2010 +0200
+
+ test: verify that gradients do not crash pixman
+
+ Test gradients under particular conditions (no stops, all the stops
+ at the same offset) to
 check that pixman does not misbehave.
+
+commit de0320258167c24fc652d28f4aeca8713243323e
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Tue Jun 8 20:36:15 2010 +0200
+
+ support single-stop gradients
+
+ Just like conical gradients, linear and radial gradients can now
+ have a single stop.

+
+commit 32bd31d677ab018849af5e0165d1dfacb1e01ed0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue May 18 22:27:46 2010 -0400
+
+   Eliminate mask_bits from all the scanline fetchers.
+
+   Back in the day, the mask_bits argument was used to distinguish
+   between masks used for component alpha (where it was 0xffffffff) and
+   masks for unified alpha (where it was 0xff000000). In this way, the
+   fetchers could check if just the alpha channel was 0 and in that case
+   avoid fetching the source.
+
+   However, we haven't actually used it like that for a long time; it is
+   currently always either 0xffffffff or 0 (if the mask is NULL). It also
+
  doesn't seem worthwhile resurrecting it because for premultiplied
+   buffers, if alpha is 0, then so are the color channels
+   normally.
+
+   This patch eliminates the mask_bits and changes the fetchers to just
+   assume it is 0xffffffff if mask is non-NULL.
+
+commit 78778e5963c948de5ce5f7c5a2a3bb9f279a8eda
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Mon Mar 15 14:56:38 2010 +0200
+
+   create getter for component alpha
+
+   This patch comes from the mozilla central tree. See
+   http://hg.mozilla.org/mozilla-central/rev/89338a224278 for the
+   original changeset.
+
+   Signed-off-by: Jeff Muizelaar <jmuizelaar@mozilla.com>
+   Signed-off-by: Egor Starkov <egor.starkov@nokia.com>
+   Signed-off-by: Rami Ylimaki <ext-rami.ylimaki@nokia.com>
+   Signed-off-by: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+
+commit cfc4e38852dc244198a9bfcab07d9014bba21d53
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed May 12 01:34:57
 2010 +0300
+
+   test: added OpenMP support for better utilization of multiple CPU cores
+
+   Some of the tests are quite heavy CPU users and may benefit from
+   using multiple CPU cores, so the programs from 'test' directory
+   are now built with OpenMP support. OpenMP is easy to use, portable

+   and also takes care of making a decision about how many threads
+   to spawn.
+
+commit f905ebb03d8ed8a3ceb76c84a10735aa209168d3
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed May 12 00:10:04 2010 +0300
+
+   test: scaling-test updated to use new fuzzer_test_main() function
+
+commit be387701a5b44e68110d5c9df07924d1029e87ac
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue May 11 23:21:05 2010 +0300
+
+   test: blitters-test updated to use new fuzzer_test_main() function
+
+commit 9ed9abd1541a0353ba4234dc77dd46d6b8771d88
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue May 11 22:57:48 2010 +0300
+
+   test: blitters-test-bisect.rb
 converted to perl
+
+   This new script can be used to run continuously to compare two test
+   programs based on fuzzer_test_main() function from 'util.c' and
+   narrow down to a single problematic test from the batch which results
+   in different behavior.
+
+commit 30c3e91c3f97cf3d5932ba639d8ac126b83efb70
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue May 11 22:46:47 2010 +0300
+
+   test: main loop from blitters-test added as a new function to utils.c
+
+   This new generalized function can be reused in both blitters-test
+   and scaling-test. Final checksum calculation changed in order to make
+   it parallelizable (it is a sum of individual 32-bit values returned
+   by a callback function, which is now responsible for running test-specific
+   code). Return values may be crc32, some other hash or even just zero on
+   success and non-zero on error (in this case, the expected result of the
+   whole test run should
 be 0).
+
+commit 164fe215f2c904cf74537caf9d76b7f9ce2667ec
+Merge: e1594f2 5158d67
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun May 9 14:24:24 2010 -0400
+
+   Merge branch 'for-master'

+
+commit e1594f204d3a3c2d2083793c8830f0ebf390ed66
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu May 6 01:05:40 2010 +0300
+
+   test/gtk-utils: Set the size of the window to the size of the image
+
+commit 2f4f2fb4859931bf6dc5632d8c919e7296736427
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue May 4 11:55:30 2010 -0400
+
+   Add support for compiling pixman without thread/tls support
+
+commit 5158d6740c8e2643611a623a0caa649f4b0bc5bd
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 24 18:43:38 2010 -0400
+
+   Add macros for thread local storage on MinGW 32
+
+   These macros are identical to the ones that Tor Lillqvist posted here:
+
+   http://lists.freedesktop.org/archives/pixman/2010-April/000160.html
+
+   with
 one exception: the variable is allocated with calloc() and not
+   malloc().
+
+   Cc: tml@iki.fi
+
+commit 582fa58bba7008c2b852ba56557612866f7522d5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Apr 23 12:34:19 2010 -0400
+
+   Don't use __thread on MinGW.
+
+   It is apparently broken. See this:
+
+   http://mingw-users.1079350.n2.nabble.com/gcc-4-4-multi-threaded-exception-handling-thread-specifier-not-working-td3440749.html
+
+   We'll need to support thread local storage on MinGW32 some other way.
+
+   Cc: tml@iki.fi
+
+commit 95d4026866b4655c88de75c9756e9f18881b7c29
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Mar 28 23:02:43 2010 -0400
+

+   Add support for 8bpp to pixman_fill_sse2()
+
+commit d539e0c661e2ec8e8405c0110469e117c5c70526
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 24 13:11:50 2010 -0400
+
+   sse2: Add sse2_composite_over_reverse_n_8888
+
+   This is a small speed-up for the
 poppler benchmark:
+
+   Before:
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   poppler   4.443   4.474   0.31%   6/6
+
+   After:
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   poppler   4.224   4.248   0.42%   6/6
+
+commit 2d65fb033b57c701e2c16747470f86bda1d861e0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Apr 24 15:15:05 2010 -0400
+
+   Don't consider indexed formats opaque.
+
+   The indexed formats have 0 bits of alpha, but can't be considered
+   opaque because there may be non-opaque colors in the palette.
+
+commit 19459672ce68b6ad6a4d376cb2d7c9a6d889ae01
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Feb 24 19:21:50 2010 -0500
+
+   Add an over_8888_8888_8888 sse2 fast path.
+
+commit a3d29157b4a33162cabbda616c34c00d9a13f7a8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Tue Feb 17 23:03:25 2009 -0500
+
+   Add pixman_region{,32}_intersect_rect()
+
+commit c0d0d20bd282c1d049b5bce4d23e10ab5b28751e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 20:52:26 2009 -0400
+
+   Rename fast_composite_src_8888_x888 to fast_composite_src_memcpy()
+
+   Then generalize it and use it for SRC copying between various

+   identical formats.
+
+commit 1f0cba3bdcc5d9a48c9189e8110c90d79260888a
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue Apr 27 15:23:20 2010 -0400
+
+   Add missing HAVE_CONFIG_H guards for config.h inclusion
+
+commit 526132fa652a42d94826760aa9c72537e3ecaf35
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Apr 22 12:14:23 2010 -0400
+
+   Remove alphamap from the GTK+ part of tests/Makefile.am
+
+   It doesn't use GTK+ and it was already listed in the non-GTK+ part.
+
+commit 8f7cc5e4388e83eb1b77aea978f3c58338232320
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Wed Apr 21 09:59:29 2010 -0400
+
+   Add pixman_image_get_format() accessor
+
+commit 2b1cae1ef62289288ef00ea7cc1dfef8e01750e6
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Apr 21 09:55:35 2010 -0400
+
+   Some minor updates to README
+
+commit 15f5868f6301a51d46cdb0833bc538f2fc68e3df
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Apr 18 16:24:39 2010 -0400
+
+   Update README to mention the pixman mailing list
+
+commit a652d5c15476cb60e1ca96ac115df625f8a1b76f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Apr 7 19:34:41 2010 -0400
+
+   [mmx] Fix mask creation bugs
+
+   This line:
+
+   mask = mask | mask >> 8 | mask >> 16 | mask >> 24;
+
+   only works when mask has 0s in the lower 24 bits, so add
+
+   mask &= 0xff000000;

+
+ before.
+
+ Reported by Todd Rinaldo on the #cairo IRC channel.
+
+commit 714559dccda3165a72f0a9935c1edc3aef535f30
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date:
  Wed Apr 7 01:44:12 2010 -0400
+
+ Fixes for pthread thread local storage.
+
+ The tls_name_key variable is passed to tls_name_get(), and the first
+ time this happens it isn't initialized. tls_name_get() then passes it
+ on to tls_name_alloc() which passes it on to pthread_setspecific()
+ leading to undefined behavior.
+
+ None of this is actually necessary at all because there is only one
+ such variable per thread local variable, so it doesn't need to passed
+ as a parameter at all.
+
+ All of this was pointed out by Tor Lillqvist on the cairo mailing
+ list.
+
+commit 634ba33b5b1fcfd5a0e7910f9991b4ed4f674549
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Apr 7 01:39:14 2010 -0400
+
+ Fix uninitialized cache when pthreads are used
+
+ The thread local cache is allocated with malloc(), but we rely on it
+ being initialized to zero, so allocate it with calloc() instead.
+
+commit bc11545a1b5c22fe74fc954e26e8a8e9d7cfa39e
+Author:
 Siddharth Agarwal <sid.bugzilla@gmail.com>
+Date: Tue Apr 13 10:15:29 2010 -0400
+
+ Visual Studio 2010 includes stdint.h
+
+ Use the builtin version instead of defining the types ourselves.
+
+commit 0345c343e55ec19ae3c8c8ed598eab7e1c1e12f3
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Apr 1 06:21:21 2010 -0400
+
+ Post-release version bump to 0.19.1
+

+commit e9dc568d6f585a153c47e970168a9c71d3e45fde
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Apr 1 05:23:31 2010 -0400
+
+   Pre-release version bump to 0.18.0
+
+commit efd41c62875d97c5127233cb6a4c353b4d495531
+Author: Matthias Hopf <mhopf@suse.de>
+Date: Wed Mar 24 18:54:29 2010 +0100
+
+   Revert "Improve PIXREGION_NIL to return true on degenerated regions."
+
+   This reverts commit ebba1493136a5a0dd7667073165b2115de203eda.
+   Scheduled for re-discussion after stable 0.18 has been released.
+
+commit ebba1493136a5a0dd7667073165b2115de203eda
+Author:
 Matthias Hopf <mhopf@suse.de>
+Date: Wed Mar 24 12:00:21 2010 +0100
+
+   Improve PIXREGION_NIL to return true on degenerated regions.
+
+   Fixes Novell bug 568811.
+
+commit c0f8d417b512b7d526fb6127954a50d14214f420
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Mar 23 17:25:54 2010 -0400
+
+   Post-release version bump to 0.17.15
+
+commit b35f0b0158cd7aac388ba4c72c6c8aada77d2e22
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Mar 23 16:52:02 2010 -0400
+
+   Pre-release version bump to 0.17.14
+
+commit 27a9f0468bdfa257e70270bf9addd5ad064f918b
+Merge: 69f1ec9 3ef2033
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Mar 23 11:00:04 2010 -0400
+
+   Merge remote branch 'ssvb/arm-fixes'
+
+commit 3ef203331f124bf137c6e0c8d5516b1209c92dd9
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Mar 22 21:56:17 2010 +0200
+
+   ARM: SIMD optimizations moved to a separate .S file

+
+   This should be
 the last step in providing full armv4t compatibility
+   with CPU features runtime autodetection in pixman.
+
+commit 0a0591c2f7abde8880f4aebd510c27517a414450
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Mar 22 19:51:00 2010 +0200
+
+   ARM: SIMD optimizations updated to use common assembly calling conventions
+
+commit c1e8d4533aea3aa10c49465cf5e9a44d946f70bb
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Mar 22 18:51:54 2010 +0200
+
+   ARM: Helper ARM NEON assembly binding macros moved into a separate header
+
+   This is needed for future reuse of the same macros for the other
+   ARM assembly optimizations (armv4t, armv6)
+
+commit 5791026e45f79d8f5168e302a498455870363ac6
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sun Dec 27 00:27:53 2009 +0200
+
+   ARM: Workaround for a NEON bug in assembler from binutils 2.18
+
+   The problem was reported as bug 25534 against pixman in
+   freedesktop.org
 bugzila. Link to a patch for binutils:
+   http://sourceware.org/ml/binutils/2008-03/msg00260.html
+
+   For pixman the impact is a build failure when using
+   binutils 2.18. Versions 2.19 and higer are fine. Still
+   some distros may be using older versions of binutils and
+   this is causing problems.
+
+   This patch workarounds the problem by replacing a problematic
+   "vmov a, b" instruction with equivalent "vorr a, b, b". Actually
+   they even map to the same instruction opcode in the generated
+   code, so the resulting binary is identical with and without patch.
+
+commit 68d8d83223b5a35e25d379c2ee9e2e3a1d242323
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Mar 22 11:54:51 2010 +0200
+
+   ARM: Use '.object_arch' directive in NEON assembly file
+
+   This can be used to override the architecture recorded in the EABI object

+ attribute section. We set a minimum arch to 'armv4'. Binutils documentation
+ recommends to use this
 directive with the code performing runtime detection
+ of CPU features.
+
+ Additionally NEON/VFP EABI attributes are suppressed. And the instruction
+ set to use is explicitly set to '.arm'.
+
+ Configure test for NEON support is also updated to include a bunch of
+ these new directives (if any of these is unsupported by the assembler,
+ it is better to fail configure test than to fail library build).
+
+ All these changes are required to fix SIGILL problem on armv4t, reported in
+ http://lists.freedesktop.org/archives/pixman/2010-March/000123.html
+
+commit 69f1ec9a7827aeb522fcae99846237ef0f896e7b
+Author: Jon TURNEY <jon.turney@dronecode.org.uk>
+Date: Wed Mar 17 21:07:06 2010 +0000
+
+ Avoid a potential division-by-zero exeception in window-test
+
+ Avoid a division-by-zero exception if the first number returned by
+ rand() is a multiple of 500, causing us to create a zero width pixmap,
+ and then attempt to use get_rand(0) when
 generating a random stride...
+
+ Fixes https://bugs.freedesktop.org/attachment.cgi?id=34162
+
+commit 50713d9d0d9241597724551315f05d958ce7a283
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Mar 17 15:12:06 2010 -0400
+
+ Post-release version bump to 0.17.13
+
+commit fb68d6c14dd76121af009213df46e37ee17e38d7
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Mar 17 13:46:44 2010 -0400
+
+ Pre-release version bump to 0.17.12
+
+commit 265ea1fb4d05a920323f23a02f9dc379312bbdae
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Mar 17 10:50:42 2010 -0400
+
+ Specialize the fast_composite_scaled_nearest_* scalers to positive x units
+
+ This avoids a test in the inner loop, which improves performance
+ especially for tiled sources.

+
+   On x86-32, I get these results:
+
+   Before:
+   op=1, src_fmt=20028888, dst_fmt=20028888, speed=306.96 MPix/s (73.18 FPS)
+   op=1, src_fmt=20028888, dst_fmt=10020565, speed=102.67
 MPix/s (24.48 FPS)
+   op=1, src_fmt=10020565, dst_fmt=10020565, speed=324.85 MPix/s (77.45 FPS)
+
+   After:
+   op=1, src_fmt=20028888, dst_fmt=20028888, speed=332.19 MPix/s (79.20 FPS)
+   op=1, src_fmt=20028888, dst_fmt=10020565, speed=110.41 MPix/s (26.32 FPS)
+   op=1, src_fmt=10020565, dst_fmt=10020565, speed=363.28 MPix/s (86.61 FPS)
+
+commit 9cd1051523493e0926b146f05cdde34158391602
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Mar 17 10:35:34 2010 -0400
+
+   Add a FAST_PATH_X_UNIT_POSITIVE flag
+
+   This is the common case for a lot of transformed images. If the unit
+   were negative, the transformation would be a reflection which is
+   fairly rare.
+
+commit a5b51bb03c5c1258d7558efa13eca6c570e34ce6
+Author: Alexander Larsson <alexl@redhat.com>
+Date: Wed Mar 17 11:58:05 2010 +0100
+
+   Use the right format for the OVER_8888_565 fast path
+
+commit 3b92b711d031a7752e06d0a5f688f4c54f50a1e6
+Author: Alexander Larsson <alexl@redhat.com>
+Date:
  Fri Mar 12 15:45:04 2010 +0100
+
+   Add specialized fast nearest scalers
+
+   This is a macroized version of SRC/OVER repeat normal/unneeded nearest
+   neighbour scaling instantiated for some common 8888 and 565 formats.
+
+   Based on work by Siarhei Siamashka
+
+commit 5750408e48259f42373a5233231104d9bd3eb35a
+Author: Alexander Larsson <alexl@redhat.com>
+Date: Fri Mar 12 15:41:01 2010 +0100
+
+   Add FAST_PATH_SAMPLES_COVER_CLIP and FAST_PATH_16BIT_SAFE
+

```
+    FAST_PATH_SAMPLES_COVER_CLIP:
+
+    This is set of the source sample grid, unrepeated but transformed
+    completely completely covers the clip destination. If this is set
+    you can use a simple scaled that doesn't have to care about the repeat
+    mode.
+
+    FAST_PATH_16BIT_SAFE:
+
+    This signifies two things:
+    1) The size of the src/mask fits in a 16.16 fixed point, so something like:
+
+        max_vx = src_image->bits.width << 16;
+
+        Is allowed
 and is guaranteed to not overflow max_vx
+
+    2) When stepping the source space we're guaranteed to never overflow
+       a 16.16 bit fix point variable, even if we step one extra step
+       in the destination space. This means that a loop doing:
+
+       x = vx >> 16;
+       vx += unit_x;          d = src_row[x];
+
+       will never overflow vx causing x to be negative.
+
+       And additionally, if you track vx like above and apply NORMAL repeat
+       after the vx addition with something like:
+
+       while (vx >= max_vx) vx -= max_vx;
+
+       This will never overflow the vx even on the final increment that
+       takes vx one past the end of where we will read, which makes the
+       repeat loop safe.
+
+commit cba6fbbddce5edfd8e28ef570c493b044761f870
+Author: Alexander Larsson <alexl@redhat.com>
+Date:   Fri Mar 12 15:40:07 2010 +0100
+
+    Add FAST_PATH_NO_NONE_REPEAT flag
+
+commit 7ec023ede155b9dacf574c4323740ef981802aa9
+Author: Alexander
 Larsson <alexl@redhat.com>
+Date:   Tue Mar 16 14:18:29 2010 +0100
+
+    Add CONVERT_8888_TO_8888 and CONVERT_0565_TO_0565 macros
+
```

+   These are useful for macroization
+
+commit c903d03052e1c34478556964338959b34928a388
+Author: Alexander Larsson <alexl@redhat.com>
+Date: Fri Mar 12 16:23:42 2010 +0100
+
+   Add CONVERT_0565_TO_8888 macro
+
+   This lets us simplify some fast paths since we get a consistent
+   naming that always has 8888 and gets some value for alpha.
+
+commit de27f45ddd46fc48ec9598f2f177155328d55580
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Mar 15 11:51:09 2010 -0400
+
+   Ensure that only the low 4 bit of 4 bit pixels are stored.
+
+   In some cases we end up trying to use the STORE_4 macro with an 8 bit
+   values, which resulted in other pixels getting overwritten. Fix this
+   by always masking off the low 4 bits.
+
+   This fixes blitters-test on big-endian machines.
+
+commit 6532f8488abffb89501cb76de7d80b8ab2d49aed
+Author:
 Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Mar 16 08:17:10 2010 -0400
+
+   Fix contact address in configure.ac
+
+commit 7c9f121efe7ee6afafad8b294974f5498054559b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Mar 16 12:23:50 2010 -0400
+
+   Add PIXMAN_DEFINE_THREAD_LOCAL() and PIXMAN_GET_THREAD_LOCAL() macros
+
+   These macros hide the various types of thread local support. On Linux
+   and Unix, they expand to just __thread. On Microsoft Visual C++, they
+   expand to __declspec(thread).
+
+   On OS X and other systems that don't have __thread, they expand to a
+   complicated concoction that uses pthread_once() and
+   pthread_get/set_specific() to get thread local variables.
+
+commit 6b9c54820015f69e667ed54441e83042c9a84cc1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Mar 16 11:01:08 2010 -0400
+

+   Add checks for various types of thread local storage.
+
+   OS X does not support __thread,
 so we have to check for it before
+   using it. It does however support pthread_get/setspecific(), so if we
+   don't have __thread, check if those are available.
+
+commit 313353f1fb9d40d0c3aaf7cfb99ca978b29003a4
+Author: Alan Coopersmith <alan.coopersmith@sun.com>
+Date: Mon Mar 15 15:20:05 2010 -0700
+
+   Add Sun cc to thread-local support checks in pixman-compiler.h
+
+   Clears '#warning: "unknown compiler"' messages when building
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
+
+commit b67f784a5dc51f41e40bb1a165411f5259ea0ee4
+Author: Alan Coopersmith <alan.coopersmith@sun.com>
+Date: Mon Mar 15 10:52:17 2010 -0700
+
+   Make .s target asm flag selection more portable
+
+   The previous code worked in GNU make, but caused a syntax error in Solaris
+   make (https://bugs.freedesktop.org/show_bug.cgi?id=27062) - this seems to
+   work in both, and should hopefully not cause syntax errors in any versions
+   of make not supporting the
 macro-substitution-in-macro-name feature, just
+   cause the macro to expand to nothing.
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
+
+commit 7a5dc747852d46fa382ef885bb6299723ef6ed00
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Mar 15 07:40:46 2010 -0400
+
+   Fix typo: WORDS_BIG_ENDIAN => WORDS_BIGENDIAN in pixman-edge.c
+
+   Pointed out by Andreas Falkenhahn on the cairo mailing list.
+
+commit ff30a5cbb941a9559082c6a6052ef761c7de949c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Mar 3 13:24:13 2010 -0500
+
+   test: Add support for indexed formats to blitters-test
+
+   These formats work fine, they just need to have a palette set.
+

+commit 2b5f7be6c05ce3643b7d29e7237f91bfaedd80e5
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Mar 1 10:32:39 2010 -0500
+
+   pixman.h: Only define stdint types when PIXMAN_DONT_DEFINE_STDINT is undefined
+
+   In SPICE, with Microsoft Visual C++, pixman.h
 is included after
+   another file that defines these types, which causes warnings and
+   errors.
+
+   This patch allows such code to just define PIXMAN_DONT_DEFINE_STDINT
+   to use its own version of those types.
+
+commit f4da05c9f988133079cac2b8d54589386f46398f
+Merge: a12d868 f534509
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Mar 14 12:12:05 2010 -0400
+
+   Merge branch 'operator-table'
+
+commit a12d868df8b673df2b563f309563954e2b3f977d
+Merge: 18f0de4 54e39e0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Mar 14 12:12:00 2010 -0400
+
+   Merge branch 'fast-path-cache'
+
+commit f534509d007de40592dedc574e7eb78445453ec0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sat Jan 30 11:37:25 2010 -0500
+
+   Change operator table to be an array of arrays of four bytes.
+
+   This makes gcc generate slightly better code for optimize_operator.
+
+commit 94d75ebd2167b44c142a6202b2d7bbe238dfd830
+Author: Søren Sandmann
 Pedersen <sandmann@redhat.com>
+Date: Sat Sep 19 02:40:56 2009 -0400
+
+   Strength reduce certain conjoint/disjoint to their normal counterparts.
+
+   This allows us to not test for them later on.
+
+commit 58be9c71d2b1d0ed9d8feed1db0581b250d0a7d2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 19 02:32:28 2009 -0400

```
+
+    Store the operator table more compactly.
+
+    The four cases for each operator:
+
+        none-are-opaque, src-is-opaque, dest-is-opaque, both-are-opaque
+
+    are packed into one uint32_t per operator. The relevant strength
+    reduced operator can then be found by packing the source-is-opaque and
+    dest-is-opaque into two bits and shifting that number of bytes.
+
+    Chris Wilson pointed out a bug in the original version of this commit:
+    dest_is_opaque and source_is_opaque were used as booleans, but their
+    actual values were the results of a logical AND with the
+    FAST_PATH_OPAQUE flag, so the
 shift value was wildly wrong.
+
+    The only reason it actually passed the test suite (on x86) was that
+    the compiler computed the shift amount in the cl register, and the low
+    byte of FAST_PATH_OPAQUE happens to be 0, so no shifting actually took
+    place, and the original operator was returned.
+
+commit 7fe35f0e6b660f5667ff653f3b753bc3e5d07901
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Fri Sep 18 14:10:31 2009 -0400
+
+    Make the operator strength reduction constant time.
+
+    By extending the operator information table to cover all operators we
+    can replace the loop with a table look-up. At the same time, base the
+    operator optimization on the computed flags rather than the ones in
+    the image struct.
+
+    Finally, as an extra optimization, we no longer ignore the case where
+    there is a mask. Instead we consider the source opaque if both source
+    and mask are opaque, or if the source is opaque and the mask is
+
 missing.
+
+commit 18f0de452dc7e12e4cb544d761a626d5c6031663
+Author: Loïc Minier <loic.minier@ubuntu.com>
+Date:   Tue Mar 9 20:57:34 2010 +0100
+
+    ARM: SIMD: Try without any CFLAGS before forcing -mcpu=
+
+    http://bugs.launchpad.net/bugs/535183
+
+commit 933540861383da27402680593edefe8d61e6fb02
```

+Author: Egor Starkov <starkov.egor@gmail.com>
+Date: Fri Mar 12 09:47:59 2010 -0500
+
+   Eliminate trailing comma in enum
+
+   https://bugs.freedesktop.org/show_bug.cgi?id=27050
+
+   Pixman is not compiling with c++ compiler. During compilation it gives
+   the following error:
+
+   /usr/include/pixman-1/pixman.h:335: error: comma at end of enumerator list
+
+   Signed-off-by: Søren Sandmann Pedersen <ssp@redhat.com>
+
+commit 54e39e00386fd2fd0eb76ead6396ddb93f1cf6c2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Sep 17 03:16:27 2009 -0400
+
+   Add a fast path cache
+
+   This patch adds a cache in front of the fast path tables
 to reduce the
+   overhead of pixman_composite(). It is fixed size with move-to-front to
+   make sure the most popular fast paths are at the beginning of the cache.
+
+   The cache is thread local to avoid locking.
+
+commit 84b009ae9f128c838d0e046e07947f8f9b2ce879
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 5 20:40:41 2010 -0500
+
+   Post-release version bump to 0.17.11
+
+commit 14fd287efb63c1f31d37053ebbbf500d0841c053
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Fri Mar 5 20:06:08 2010 -0500
+
+   Pre-release version bump to 0.17.10
+
+commit bd9934551f72f4993016cab1d7be3b1e545629b1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Feb 26 14:15:22 2010 -0500
+
+   Move __force_align_arg_pointer workaround before composite32()
+
+   Since otherwise the workaround won't take effect when you call
+   pixman_image_composite32() directly.
+

+commit 14bb054d9695abb284e22a1de31337e0e41bb4e3
+Merge: 9a8e404 3db76b9
+Author:
Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Mar 4 02:30:22 2010 -0500
+
+   Merge branch 'more-flags'
+
+commit 9a8e404d44b6ed9817d088966cec324a38e60897
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Feb 27 00:37:19 2010 -0500
+
+   test: Remove obsolete comment
+
+commit 182e4c2635fdb90c50b2e86253738b7e9c8ea282
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Feb 24 04:14:45 2010 +0200
+
+   ARM: added 'neon_composite_over_reverse_n_8888' fast path
+
+   This fast path function improves performance of 'poppler' cairo-perf trace.
+
+   Benchmark from ARM Cortex-A8 @720MHz
+
+   before:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   poppler   38.986   39.158   0.23%   6/6
+
+   after:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   poppler
  24.981   25.136   0.28%   6/6
+
+commit 072a7d31a8c872666787b69a6bd1b537565c5b96
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Feb 24 02:26:57 2010 +0200
+
+   ARM: added 'neon_composite_src_x888_8888' fast path
+
+   This fast path function improves performance of 'gnome-system-monitor'
+   cairo-perf trace.
+
+   Benchmark from ARM Cortex-A8 @720MHz
+
+   before:
+

+ [#] backend test min(s) median(s) stddev. count
+ [0] image gnome-system-monitor 68.838 68.899 0.05% 5/6
+
+ after:
+
+ [#] backend test min(s) median(s) stddev. count
+ [0] image gnome-system-monitor 53.336 53.384 0.09% 6/6
+
+commit 2ed7c13922f83404bd9976c00d00738d0314693f
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Feb 24 01:44:00 2010 +0200
+
+ ARM: added 'neon_composite_over_n_8888_8888_ca' fast path
+
+ This fast
path function improves performance of 'firefox-talos-gfx'
+ cairo-perf trace.
+
+ Benchmark from ARM Cortex-A8 @720MHz
+
+ before:
+
+ [#] backend test min(s) median(s) stddev. count
+ [0] image firefox-talos-gfx 139.969 141.176 0.35% 6/6
+
+ after:
+
+ [#] backend test min(s) median(s) stddev. count
+ [0] image firefox-talos-gfx 111.810 112.196 0.23% 6/6
+
+commit 3db76b90049f23723a0519d572b9cda7c672f7d5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Feb 14 19:18:35 2010 -0500
+
+ Restructure the flags computation in compute_image_info().
+
+ Restructure the code to use switches instead of ifs. This saves a few
+ comparisons and make the code slightly easier to follow. Also add some
+ comments.
+
+commit ac44db334066f68a837914a52d8d1368c85161ad
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
Sun Feb 14 19:14:44 2010 -0500
+
+ Move workaround code to pixman-image.c
+
+ It is more natural to put it where all the other flags are computed.

+
+commit 35af45d5e3d3f893ccaa4ab2f947100eb9d840ac
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Feb 22 06:06:22 2010 -0500
+
+   Turn need_workaround into another flag.
+
+   Instead of storing it as a boolean in the image struct, just use
+   another flag for it.
+
+commit f27f17ce22b6d0ac587600930c3657180066aac8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 11:54:21 2009 -0400
+
+   Eliminate _pixman_image_is_opaque() in favor of a new FAST_PATH_IS_OPAQUE flag
+
+   The new FAST_PATH_IS_OPAQUE flag is computed along with the others in
+   _pixman_image_validate().
+
+commit 2a6ba862abd8859014d11a742247fa1f1225729b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 04:17:57 2009 -0400
+
+   Eliminate _pixman_image_is_solid()
+
+   Instead
 of calling this function in compute_image_info(), just do the
+   relevant checks when the extended format is computed.
+
+   Move computation of solidness to validate
+
+commit 45006e5e648b85df65b922f893c9802c9ecce38e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 04:06:30 2009 -0400
+
+   Move computation of extended format code to validate.
+
+   Instead of computing the extended format on every composite, just
+   compute it once and store it in the image.
+
+commit fb0096a282c5b6e7ca9eb59a05d9ff738dccfd4b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Mon Feb 22 05:16:27 2010 -0500
+
+   Add new FAST_PATH_SIMPLE_REPEAT flag
+
+   This flags indicates that the image is untransformed an
+   repeating. Such images can be composited quickly by simply repeating

+ the composite operation.
+
+commit a7ad9c7c9dcb78e0c5ad00145b119dfe929eb307
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 03:54:36
2009 -0400
+
+ Compute the image flags at validation time instead of composite time
+
+ Instead of computing all the image flags at composite time, we compute
+ them once in _pixman_image_validate() and cache them in the image.
+
+commit 7bc4cd42c3549f3f2354f50a7cf21ce9ccc8de7b
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Feb 24 22:09:41 2010 -0500
+
+ RELEASING: Update the release instructions.
+
+commit 7392a350f2808146842be0924ca289c5df6c8922
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Feb 24 22:02:13 2010 -0500
+
+ Post-release version bump
+
+commit 4d1c216af3d6fc58829c2f5ea434e97ff8012493
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Feb 24 21:52:30 2010 -0500
+
+ Pre-release version bump
+
+commit e0f1d8410715083498a35284ea7e5bb71fabe090
+Merge: 16ef3ab 282f5cf
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Feb 24 21:01:29 2010 -0500
+
+ Merge branch 'trap-fixes'
+
+commit 16ef3ab230047221f813905d390bf762a3d8508a
+Author:
Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Feb 24 20:51:25 2010 -0500
+
+ Add a1-trap-test
+
+ When a trapezoid sample point is exactly on a polygon edge, the rule
+ is that it is considered inside the trapezoid if the edge is a top or
+ left edge, but outside for bottom and right edges.
+

+ This program tests that for a1 trapezoids.
+
+commit ad5cbba4c05f8521004c6aa1afd5aa74040afad0
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Sun Feb 21 02:01:16 2010 -0500
+
+ Hide the C++ extern "C" declarations behind macros.
+
+ That way they don't confuse the indenting algorithm in editors such as
+ Emacs.
+
+commit 14f201dc47ba76fcf677936f4f809249054fd6ad
+Merge: 94f5859 6b2da68
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Feb 20 13:09:01 2010 -0500
+
+ Merge branch 'eliminate-composite'
+
+ Conflicts:
+ pixman/pixman-sse2.c
+
+commit 94f585916a2385146ee5c803f7850b21149d728b
+Author:
Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Feb 13 20:08:13 2010 -0500
+
+ Move all code to do debugging spew into pixman-private.
+
+ Rather than the region code having its own little debug system, move
+ all of it into pixman-private where there is already return_if_fail()
+ macros etc. These macros are now enabled in development snapshots and
+ nowhere else. Previously they were never enabled unless you modified
+ the code.
+
+ At the same time, remove all the asserts from the region code since we
+ can never turn them on anyway, and replace them with
+ critical_if_fail() macros that will print spew to standard error when
+ DEBUG is defined.
+
+ Finally, also change the debugging spew in pixman-bits-image.c to use
+ return_val_if_fail() instead of its own fprintf().
+
+commit f32d585069e77f09f84de42eda8ed8f6849aab57
+Author: Alexander Larsson <alexl@redhat.com>
+Date: Fri Feb 19 11:22:52 2010
+0100
+
+ Test pixman_region32_init_from_image in region-test

+
+commit 48ef4befd88e06e83a583a70f0172f1a08a65cda
+Author: Alexander Larsson <alexl@redhat.com>
+Date: Mon Feb 15 09:40:50 2010 +0100
+
+   Add pixman_region{32}_init_from_image
+
+   This creates a region from an image in PIXMAN_a1 format.
+
+commit 5dee05fcab16dbd3e2c5e4d85b9edf26cf523e3f
+Author: Alexander Larsson <alexl@redhat.com>
+Date: Mon Feb 15 09:39:59 2010 +0100
+
+   Move SCREEN_SHIFT_LEFT/RIGHT to pixman-private.h
+
+   This is needed for later use in other code.
+
+commit 61f4ed9c7a3ff6afbbb42d3f3b8dc3b9331bdcbd
+Author: Makoto Kato <m_kato@ga2.so-net.ne.jp>
+Date: Thu Feb 18 14:30:01 2010 +0900
+
+   Compile by USE_SSE2 only without USE_MMX
+
+   Although we added MMX emulation for Microsoft Visual C++ compiler for x64,
+   USE_SSE2 still requires USE_MMX. So we remove dependency of USE_MMX
+   for Windows x64.
+
+   Signed-off-by: Makoto Kato <m_kato@ga2.so-net.ne.jp>
+
+commit
 6b2da683debd1b3fc1862752cb26e6799b644e05
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Sep 16 07:29:08 2009 -0400
+
+   Move NULL check out of get_image_info()
+
+   The NULL check is only necessary for masks, so there is no reason to
+   do it for destinations and sources.
+
+commit 1dd8744f40f4b754fb3aa26a3c7f4fbe54c27155
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Sep 16 06:54:43 2009 -0400
+
+   Add a fast path for non-repeating sources in walk_region_internal().
+
+   In the common case where there is no repeating, the loop in
+   walk_region_internal() reduces to just walking of the boxes involved
+   and calling the composite function.

+
+commit 362a9f564a9a58c48ab0129ca3ac997d0cb84bab
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 01:34:33 2009 -0400
+
+   Move more things out of the inner loop in do_composite().
+
+   Specifically,
+
+   - the src_ and mask_repeat computations
+

+   - the check for whether the involved images cover the composite
+   region.
+
+commit 129d9c187146a060863598d154e6770394547afd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 01:16:40 2009 -0400
+
+   Move region computation out of the loop in do_composite()
+
+   We only need to compute the composite region once, not on every
+   iteration.
+
+commit 4c185503d26374915942d1f64c02134e4a2c5a99
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 01:14:41 2009 -0400
+
+   Move get_image_info() out of the loop in do_composite
+
+   The computation of image formats and flags is invariant to the loop,
+   so it can all be moved out.
+
+commit 81b7d7b18050c770f272fd10aa7f5cf85ddc25cc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 01:13:36 2009 -0400
+
+   Manually inline _pixman_run_fast_path()
+
+   Move all of the code into do_composite().
+
+commit e914cccb24c1391aa25eca8df87a08bd935cd870
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 01:11:04 2009 -0400
+
+   Move compositing functionality from pixman-utils.c into pixman.c
+

+   _pixman_run_fast_path() and pixman_compute_composite_region() are both
+   moved to pixman-image, since at this point that's the only place they
+   are being called from.
+
+commit 0eeb197599cca78a645f8a5498b0124ef170c523
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Nov 7 15:13:03 2009 -0500
+
+   Move compositing to its own function, do_composite()
+
+commit f831552bce70f2619ea8db00983d80dd1abd0003
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 00:58:51 2009 -0400
+
+   Optimize for the common case wrt. the workaround.
+
+   In the common case no images need the workaround, so we check for that
+   first, and only if an image does need a workaround do we check which
+   one of the images actually need it.
+
+commit fa4df6225d4fa0b740c0ce69361e2f7cee1686f9
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 00:48:12 2009 -0400
+
+   Eliminate all the composite methods.
+
+   They are no longer necessary because we will just walk the fast path
+   tables, and the general composite path is treated as another fast
+   path.
+
+   This unfortunately means that sse2_composite() can no longer be
+   responsible for realigning the stack to 16 bytes, so we have to move
+   that to pixman_image_composite().
+
+commit c3d7b5125585a7d974ccd904100777a0e18d425f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 00:23:11 2009 -0400
+
+   Delete unused _pixman_walk_composite_region() function
+
+commit 488480301c7ca9cb4e41c8d0f489fb56e5d9efdd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Nov 7 15:28:57 2009 -0500
+
+   Don't call _pixman_implementation_composite() anymore.
+
+   Instead just call _pixman_run_fast_path(). Since we view

+ general_composite()
as a fast path now, we know that it will find
+ *some* compositing routine.
+
+commit 06ae5ed5971fe616b96bb97a63abf6cc27c5b669
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Sep 14 23:58:40 2009 -0400
+
+ Delete unused sources_cover() function
+
+commit 543a04a3bbd2c622842739ab923ff8761c05ed83
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Sep 14 23:47:39 2009 -0400
+
+ Store a pointer to the array of fast paths in the implementation struct.
+
+ Also add an empty fast path table to the vmx implementation, so that
+ we can assume sure the pointer is never NULL.
+
+commit 376f2a3f853f829c78983a51bffc1bacb9bec9a3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 00:20:22 2009 -0400
+
+ Make fast_composite_scaled_nearest() another fast path.
+
+ This requires another couple of flags
+
+ FAST_PATH_SCALE_TRANSFORM
+ FAST_PATH_NEAREST_FILTER
+
+commit 87430cfc35c6e51bb1a947795e0ddb198c460253
+Author:
Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Sep 13 05:29:48 2009 -0400
+
+ Make general_composite_rect() just another fast path.
+
+ We introduce a new PIXMAN_OP_any fake operator and a PIXMAN_any fake
+ format that match anything. Then general_composite_rect() can be used
+ as another fast path.
+
+ Because general_composite_rect() does not require the sources to cover
+ the clip region, we add a new flag FAST_PATH_COVERS_CLIP which is part
+ of the set of standard flags for fast paths.
+
+ Because this flag cannot be computed until after the clip region is
+ available, we have to call pixman_compute_composite_region32() before
+ checking for fast paths. This will resolve itself when we get to the

+   point where _pixman_run_fast_path() is only called once per composite
+   operation.
+
+commit d7e281e0a1f7b1aecd245070736e03d2953b0911
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
   Sat Feb 13 18:23:34 2010 -0500
+
+   Post-release version bump
+
+commit 9bcadc340866c49dab1cb40ff79c683972e8a37d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Feb 13 18:12:32 2010 -0500
+
+   Pre-release version bump
+
+commit 97a12457394b36b5b052927af65ac3944ceccf09
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 31 15:06:33 2009 -0400
+
+   Once unrolled version of fast_path_composite_nearest_scaled()
+
+   Separate out the fetching and combining code in two inline
+   functions. Then do two pixels per iteration.
+
+commit e5972110750b32929a474c35362f4639dbbd1222
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 30 02:50:38 2009 -0400
+
+   Generalize and optimize fast_composite_src_scaled_nearest()
+
+   - Make it work for PIXMAN_OP_OVER
+
+   - Split repeat computation for x and y, and only the x part in the
+   inner loop.
+
+   - Move stride multiplication outside of inner
 loop
+
+commit 337e916473069a76a44757b3664f8d49da350773
+Merge: bdc4a6a 8e85059
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Feb 13 12:26:09 2010 -0500
+
+   Merge branch 'bitmasks'
+
+commit bdc4a6afe0bcea6dfb0df221006f4fe188324678
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Sat Feb 13 11:18:13 2010 -0500
+
+   Makefile.am: Remove 'check' from release-check
+
+   It's already included in distcheck.
+
+commit edee4be052cf0d466922759efd2613e5a2be9e2b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Feb 13 09:40:33 2010 -0500
+
+   Turn off asserts in development snapshots (bug 26314).
+
+   There is not much real benefit in having asserts turned on in
+   snapshots because it doesn't lead to any new bug reports, just to
+   people not installing development snapshots since they case X server
+   crashes. So just turn them off.
+
+   While we are at it, limit the number of messages to stderr to 5
+   instead
 of 50.
+
+commit cf1f034fef34478c528bedf1e59be443fa72429c
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sun Feb 7 07:33:52 2010 +0200
+
+   ARM: Remove any use of environment variables for cpu features detection
+
+   Old code assumed that all ARMv7 processors support NEON instructions
+   unless overrided by environment variable ARM_TRUST_HWCAP. This causes
+   X server to die with SIGILL if NEON support is disabled in the kernel
+   configuration. Additionally, ARMv7 processors lacking NEON unit are
+   going to become available eventually.
+
+   The problem was reported by user bearsh at irc.freenode.net #gentoo-embedded
+
+commit 865c37d57421f6888151486ae1a2ec986a7cd9d2
+Author: Alexander Larsson <alexl@redhat.com>
+Date: Tue Feb 9 15:57:18 2010 +0100
+
+   Add pixman_image_get_destroy_data()
+
+   This way you can get back user data that was set using
+   pixman_image_set_destroy_function().
+
+commit cca1cef3f29d244f0a57bd3ed8b09e2892f8934a
+Author:
 Alexander Larsson <alexl@redhat.com>
+Date: Tue Feb 9 13:22:38 2010 +0100

+
+   Add extern "C" guards for c++
+
+commit 8e8505943651ac46e0ad5a2dd0b9e85704095cc1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Sep 13 04:28:20 2009 -0400
+
+   Move checks for src/mask repeat right before walking the region.
+
+   Also add a couple of additional checks to the src/mask repeat check.
+
+commit eea58eab93aefd4430544754f8a0f5460b4a30aa
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Sep 13 03:43:16 2009 -0400
+
+   Compute src, mask, dest flags and base fast path decisions on them.
+
+   This makes sets the stage for caching the information by image instead
+   of computing it on each composite invocation.
+
+   This patch also computes format codes for images such as PIXMAN_solid,
+   so that we can no longer end up in the situation that a fast path is
+   selected for a 1x1 solid image, when that fast path doesn't
 actually
+   understand repeating.
+
+commit 6197db91a32da7ea281fd87b59f5bb74b989361b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Sep 13 02:34:32 2009 -0400
+
+   Add src_, mask_, and dest_flags fields to fast path arrays
+
+   Update all the fast path tables to match using a new
+   PIXMAN_STD_FAST_PATH macro.
+
+   For now, use 0 for the flags fields.
+
+commit ff6eaac50eaa8778ba15fd0f796e94cc751dea0a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 05:26:50 2009 -0400
+
+   Move calls to source_is_fastpathable() into get_source_format()
+
+commit 171dc4875644f72d65ff2e31533edacc781069ec
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 05:09:53 2009 -0400
+
+   Fold get_fast_path() into _pixman_run_fast_path()

+
+   Also factor out the source format code computation to its own
+   function.
+
+commit 459c7a52f67c9628e94107599e3abbc6463cbd0f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
   Sat Sep 12 04:30:22 2009 -0400
+
+   Consolidate the source and mask sanity checks in a function
+
+commit 27a4fb4747426ee935d2149cca2197a369c4556d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 04:10:30 2009 -0400
+
+   Move pixbuf checks after src_format and mask_format have been computed.
+
+commit 2def1a8867a1ab0ccab720d1cc3f3c7b61c74619
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 04:03:25 2009 -0400
+
+   Move the sanity checks for src, mask and destination into get_fast_path()
+
+commit d76aab4d03d9e700c3c431b077a4b506a5e53df1
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Wed Jan 27 07:11:11 2010 -0500
+
+   Turn some uint16_t variables to int32_t in the fast paths.
+
+   This is necessary now that we have a 32 bit version of
+   pixman_image_composite().
+
+commit 15d07d6c2ac4ed5d41dc80b476e09e8d7dd6a84a
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Thu Jan 21 13:43:53
 2010 -0500
+
+   Implement get_scanline_64() correctly for solid fill images.
+
+   Previously they would be evaluated at 8 bits and then expanded.
+
+commit 0e8550798f69ef69dbde59eda6341ab4e0801069
+Author: Benjamin Otte <otte@redhat.com>
+Date: Tue Jan 26 19:37:34 2010 +0100
+
+   Make pixman_image_fill_rectangles() call pixman_image_fill_boxes()
+
+   Avoids duplication of code

+
+commit d0d284da0a8810e7435b8e932ac5de352793a39a
+Author: Benjamin Otte <otte@redhat.com>
+Date: Tue Jan 26 19:03:38 2010 +0100
+
+   Add pixman_image_fill_boxes() API
+
+   It's basically the 32bit version of pixman_image_fill_rectangles(), just
+   with a saner data type.
+
+commit e841c556d59ca0aa6d86eaf6dbf061ae0f4287de
+Author: Benjamin Otte <otte@redhat.com>
+Date: Tue Jan 26 18:52:27 2010 +0100
+
+   Add pixman_image_composite32()
+
+   This is equal to pixman_image_composite(), just with 32bit parameters.
+   pixman_image_composite() now just calls pixman_image_composite32()
+
+commit
 78b6c470789eb226708a5d98bb06a962d2ae0b0d
+Author: Benjamin Otte <otte@redhat.com>
+Date: Tue Jan 26 19:09:56 2010 +0100
+
+   Make region argument to pixman_region(32)_init_rects() const
+
+   No indenting of the header to keep git blame working
+
+commit b194bb78c8a32b7252cccaebdc085cd8e759427d
+Author: Benjamin Otte <otte@redhat.com>
+Date: Tue Jan 26 19:08:29 2010 +0100
+
+   Fix typo
+
+commit c066c347aeaa779b7a3c9e3cde45413277370f0f
+Author: Søren Sandmann Pedersen <ssp@redhat.com>
+Date: Tue Jan 19 14:23:57 2010 -0500
+
+   Fix some warnings
+
+commit 8fce7b18f3033aa1423b96b9847f6ae3133fad7a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jan 17 19:34:27 2010 -0500
+
+   Post-release version bump
+
+commit 23e1ba3c062711fe256612ca7f39478e048a6708
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Sun Jan 17 18:56:11 2010 -0500
+
+   Pre-release version bump
+
+commit 8dabd1fdd8f0030086cfe70f0baba7c502a0e1b8
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jan 17 16:45:23 2010 -0500
+
+   bits: Print an error if someone tries to create an image with bpp < depth
+
+   Something in the X server apparently does this.
+
+commit 2c3cbc83c4018173d9deae3f24c457b3ca16dbcd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jan 16 10:31:22 2010 -0500
+
+   When fetching from an alpha map, replace the alpha channel of the image
+
+   Previously it would be multiplied onto the image pixel, but the Render
+   specification is pretty clear that the alpha map should be used
+   *instead* of any alpha channel within the image.
+
+   This makes the assumption that the pixels in the image are already
+   premultiplied with the alpha channel from the alpha map. If we don't
+   make this assumption and the image has an alpha channel of its own, we
+   would have to first unpremultiply that pixel, and then premultiply the
+   alpha value onto the color
 channels, and then replace the alpha
+   channel.
+
+commit 0df6098f3d941608f945d02e2af65b70ac499e0a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jan 16 10:09:25 2010 -0500
+
+   pixman_image_validate() needs to also validate the alpha map.
+
+   This is the other half of bug 25950.
+
+commit 7f00dc62e4aa4b2b417ca1c86813a6b4c7f78673
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jan 16 10:07:48 2010 -0500
+
+   When fetching from an alpha map, use the alpha map's fetch function.
+
+   Don't use the one from the image. This is the first half of bug 25950.
+
+commit 042f978b04aefe56ec912c88ec879e668153a287

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jan 16 09:48:45 2010 -0500
+
+   test: Add new alphamap test program.
+
+   This program demonstrates three bugs relating to alpha maps:
+
+   - When fetching from an alpha map into 32 bit intermediates, we use
+   the fetcher from the image, and not
 the one from the alpha map.
+
+   - For 64 bit intermediates we call fetch_pixel_generic_lossy_32()
+   which then calls fetch_pixel_raw_64, which is NULL because alpha
+   images are never validated.
+
+   - The alpha map should be used *in place* of any existing alpha
+   channel, but we are actually multiplying it onto the image.
+
+commit 05c38141b4861348bf61235341d634019e39e8a9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jan 16 07:40:07 2010 -0500
+
+   fetch-test: Fix spelling error (pallete -> palette)
+
+commit c46a87e45afc6eb53ae93f9ca3c1545bd26d18f5
+Author: Alan Coopersmith <alan.coopersmith@sun.com>
+Date: Thu Jan 14 09:42:34 2010 -0800
+
+   Update Sun license notices to current X.Org standard form
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
+
+commit 3df6cb34315ebaeb2ce3f341160355650d856518
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jan 10 09:15:24 2010 -0500
+
+   fetch-test:
 Various formatting fixes
+
+commit 7862f9b96e8e8456cc60852790c7f244a5e3425e
+Author: Pierre-Loup A. Griffais <pgriffais@nvidia.com>
+Date: Wed Jan 6 01:26:07 2010 +0200
+
+   Interpret the angle of a conical gradient in degrees.
+
+   The conical gradient angle's fixed point degrees to
+   radians conversion code is missing a factor of pi.
+

+commit 54f51c4a7595d685397838006ba67473eee47e7d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Dec 11 11:14:19 2009 -0500
+
+   region: Enable or disable fatal errors and selfchecks based on version number
+
+   There is a couple of bugs in bugzilla where bugs in the X server
+   triggered asserts in the pixman region code. It is probably better to
+   let the X server survive this. (In fact, I thought I had disabled them
+   for 0.16.0, but apparently not).
+
+   The patch below uses these rules:
+
+   - In _stable_ pixman releases, assertions and selfchecks are turned
+   off. Assertions,
 so that the X server doesn't die. Selfchecks,
+   for performance reasons.
+
+   - In _unstable_ pixman releases, both assertions and selfcheck are
+   turned on. These releases are what get added to development
+   distributions such as rawhide, so we want as much self-checking
+   as possible.
+
+   - In _random git checkouts_, assertions are enabled, so that bugs
+   are caught, but selfchecks are disabled so that you can use them
+   for performance work without having to fiddle with turning
+   selfchecks off.
+
+commit 91ec7fecc9b16ec1d18c46d08698e6128baaba1d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 03:27:44 2009 -0400
+
+   Some minor formatting fixes.
+
+commit 97cf4d494cb6fc0a75eec7d6f06f81ba7644d820
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Dec 16 17:54:41 2009 -0500
+
+   arm-simd: Whitespace fixes
+
+commit 28778c997e60af35d26df61fd82860748deb6fab
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Dec 16 17:49:44 2009 -0500
+
+   mmx: Eliminate trailing whitespace.
+
+commit c6c43c65f76aa84c57a94155117487199bc0323e

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Dec 16 15:23:50 2009 -0500
+
+   Add 'check' to release-check make target
+
+commit b3afacf9c970fa7de5ffdebebbd8526a55d3e7d8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Dec 16 15:15:17 2009 -0500
+
+   Reorder tests so that they fastest ones run first.
+
+commit bbc5108bf8cfcb1f2334e51a8e904b5be48376e1
+Author: Marvin Schmidt <marv@exherbo.org>
+Date: Sun Nov 15 16:04:09 2009 +0100
+
+   Build tests and run non-GTK+ ones on `make check`
+
+   Setting TESTS will run the tests on `make check`
+
+   Bug 25131
+
+commit 44768320709183a341d219f97c03c5b592a69355
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Dec 10 00:25:58 2009 +0200
+
+   ARM: added 'neon_combine_add_u'
 function
+
+commit f2c7a04c41440b15a5ce1db7ab87dd5bd8c088da
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Dec 10 00:22:12 2009 +0200
+
+   ARM: added 'neon_combine_over_u' function
+
+commit 24cd286af6f4507eb9937ced6d9998d296c77a0a
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Dec 9 23:49:04 2009 +0200
+
+   ARM: macro template for single scanline compositing functions
+
+   Existing template already supports 2D images processing,
+   but pixman also needs some NEON optimized functions for
+   improving performance when compositing is decoupled
+   into "fetch -> process -> store" stages and done via
+   temporary scanline buffer. That's why a new simplified
+   template which deals only with the generation of single
+   scanline processing functions is handy.
+

+commit ae8d9df6248445170702c244cd60f894aa761267
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Dec 14 19:14:36 2009 +0200
+
+   Use canonical
 pixman license notice for recently added ARM NEON assembly files
+
+commit ce78288d7783a27700223c39e23880f4f425f70b
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Nov 6 02:25:47 2009 +0200
+
+   ARM: added 'neon_composite_src_pixbuf_8888' fast path
+
+   This is ARM NEON optimized conversion of native RGBA format used by
+   GTK/GDK into native 32bpp RGBA format used by cairo/pixman.
+
+commit a732d3baeb0697b91a713fd6b51b68ee7ca68e03
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Nov 5 20:27:38 2009 +0200
+
+   ARM: added 'neon_composite_src_0888_0565_rev' fast path
+
+   This is ARM NEON optimized conversion of native RGB format used by
+   GTK/GDK into r5g6b5 format.
+
+commit a1386a1ceb0c50d2e23cf30be30ea165d2d2ea7c
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Nov 5 19:43:09 2009 +0200
+
+   ARM: added 'neon_src_0888_8888_rev' fast path
+
+   This is ARM NEON optimized conversion of native
 RGB format used by
+   GTK/GDK into native 32bpp RGB format used by cairo/pixman.
+
+commit 78a60047ac0f85423e0474ef54930e1f537f646b
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Dec 9 11:29:13 2009 +0200
+
+   ARM: added 'neon_composite_over_n_8888' fast path
+
+commit 96fd17488f0966d2df53623195810dc640bf5ca6
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Dec 9 11:02:04 2009 +0200
+
+   ARM: added 'neon_composite_over_n_0565' fast path
+
+commit 2d332c7a569803107e11b41c7b2c020b4050e26e

+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Dec 9 10:33:01 2009 +0200
+
+   ARM: added 'neon_composite_src_0565_8888' fast path
+
+commit 062da411d81c7d970a302dd2c283ef5327b867da
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Dec 8 15:04:41 2009 +0200
+
+   ARM: added 'neon_composite_add_8888_8888_8888' fast path
+
+commit 3d0eedb5d9af97fed68e2da03d6aee40197e2a76
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:
  Tue Dec 8 14:39:41 2009 +0200
+
+   ARM: added 'neon_composite_add_8888_8888' fast path
+
+commit 86b54c6701666d087f0234047128fbf0fd6468b6
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Dec 7 22:53:30 2009 +0200
+
+   ARM: added 'neon_composite_over_8888_8_8888' fast path
+
+commit aec1524e773758369ab627553dc5c23d18619a85
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Dec 7 22:42:17 2009 +0200
+
+   ARM: added 'neon_composite_over_8888_8888_8888' fast path
+
+commit ba59d53d0b61effc422c4004a9f0e6cf848598d8
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Dec 8 14:13:12 2009 +0200
+
+   ARM: minor source formatting changes
+
+   Now it's a bit harder to exceed 80 characters line limit
+   when binding assembly functions.
+
+commit a47b5167c4c1b55b2f51e29ab0782c2659bec312
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Dec 8 08:52:34 2009 +0200
+
+   ARM: added
 '.arch armv7a' directive to NEON assembly file
+
+   This fix prevents build failure due to not accepting PLD instruction when
+   compiling for armv4 cpu with the relevant -mcpu/-march options set in CFLAGS.

+
+commit 3fba7dc6fa52bbf01cfc5c4aab1ab06d49a117b2
+Author: Benjamin Otte <otte@gnome.org>
+Date: Sat Nov 28 11:38:43 2009 +0100
+
+   Make test program not throw warnings about undefined variables
+
+commit 10ab592d57bbeefb3e3297c4a905e5cec233a006
+Author: Benjamin Otte <otte@gnome.org>
+Date: Fri Nov 27 22:02:54 2009 +0100
+
+   Fix bug that prevented pixman_fill MMX and SSE paths for 16 and 8bpp
+
+commit 7c7b6f5de75a998deaab5d00baf69a895ceba795
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 18 04:26:18 2009 +0200
+
+   ARM: NEON optimized pixman_blt
+
+   NEON unit has fast access to L1/L2 caches and even simple
+   copy of memory buffers using NEON provides more than 1.5x
+   performance improvement on ARM Cortex-A8.
+
+commit dce6e1bd6840ce0646d8738aaa0927c003dbb361
+Author:
 Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Thu Nov 5 23:15:27 2009 +0200
+
+   test: support for testing pixbuf fast path functions in blitters-test
+
+commit 0901ef41fbca2b8fb504c64a2b694bd764770292
+Author: Benjamin Otte <otte@gnome.org>
+Date: Sun Nov 22 04:34:01 2009 +0100
+
+   Remove nonexistant function from header
+
+commit c97b1e803fc214e9880eaeff98410c8fa37f9ddc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Nov 20 12:02:50 2009 +0100
+
+   Post-release version bump
+
+commit 5a7597f81862ecf7b098ed254fb8e4197ccae3a8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Nov 20 11:55:40 2009 +0100
+
+   Pre-release version bump
+

+commit 95a08dece37080e199e436fa6f2dc02e60d346dd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Nov 20 09:35:48 2009 +0100
+
+   Remove stray semicolon from blitters-test.c
+
+   Pointed out by scottmc2@gmail.com in bug 25137.
+
+commit
 6e2c7d54c6786b52ae7dc683d2dbb4c7c033bb09
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Nov 9 14:10:00 2009 +0200
+
+   C fast path function for 'over_n_1_0565'
+
+   This function is needed to improve performance of xfce4 terminal when
+   using bitmap fonts and running with 16bpp desktop. Some other applications
+   may potentially benefit too.
+
+   After applying this patch, top functions from Xorg process in
+   oprofile log change from
+
+   samples %   image name   symbol name
+   13296   29.1528 libpixman-1.so.0.17.1   combine_over_u
+   6452   14.1466 libpixman-1.so.0.17.1   fetch_scanline_r5g6b5
+   5516   12.0944 libpixman-1.so.0.17.1   fetch_scanline_a1
+   2273   4.9838 libpixman-1.so.0.17.1   store_scanline_r5g6b5
+   1741   3.8173 libpixman-1.so.0.17.1   fast_composite_add_1000_1000
+   1718   3.7669 libc-2.9.so   memcpy
+
+   to
+
+   samples %
     image name   symbol name
+   5594   14.7033 libpixman-1.so.0.17.1   fast_composite_over_n_1_0565
+   4323   11.3626 libc-2.9.so   memcpy
+   3695   9.7119 libpixman-1.so.0.17.1   fast_composite_add_1000_1000
+
+   when scrolling text in terminal (reading man page).
+
+commit 282f5cf8b821a34bab1e32957913ef8d9f9ee43c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Nov 12 17:54:40 2009 -0500
+
+   Round horizontal sampling points towards northwest.
+
+   This is a similar change as the top/bottom one, but in this case the
+   rounding is simpler because it's just always rounding down.

+
+   Based on a patch by M Joonas Pihlaja.
+
+commit f44431986f667eb49571e9365960524361f833c5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Nov 12 17:20:32 2009 -0500
+
+   Fix rounding of top and bottom coordinates.
+
+   The rules for trap rasterization is that coordinates are rounded
+   towards
 north-west.
+
+   The pixman_sample_ceil() function is used to compute the first
+   (top-most) sample row included in the trap, so when the input
+   coordinate is already exactly on a sample row, no rounding should take
+   place.
+
+   On the other hand, pixman_sample_floor() is used to compute the final
+   (bottom-most) sample row, so if the input is precisely on a sample
+   row, it needs to be rounded down to the previous row.
+
+   This commit fixes the rounding computation. The idea of the
+   computation is like this:
+
+   Floor operation that rounds exact matches down: First subtract
+   pixman_fixed_e to make sure input already on a sample row gets rounded
+   down. Then find out how many small steps are between the input and the
+   first fraction. Then add those small steps to the first fraction.
+
+   The ceil operation first adds (small_step + pixman_e), then runs a
+   floor. This ensures that exact matches are not rounded off.
+

+   Based on a patch by M Joonas Pihlaja.
+
+commit 3bea18e3ea587c84423e9f7bafff21150c37d287
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Nov 12 17:03:53 2009 -0500
+
+   Fix slightly skewed sampling grid for antialiased traps
+
+   The sampling grid is slightly skewed in the antialiased case. Consider
+   the case where we have n = 8 bits of alpha.
+
+   The small step is
+
+   small_step = fixed_1 / 15 = 65536 / 15 = 4369

+
+   The first fraction is then
+
+   frac_first = (small_step / 2) = (65536 - 15) / 2 = 2184
+
+   and the last fraction becomes
+
+   frac_last
+   = frac_first + (15 - 1) * small_step = 2184 + 14 * 4369 = 63350
+
+   which means the size of the last bit of the pixel is
+
+   65536 - 63350 = 2186
+
+   which is 2 bigger than the first fraction. This is not the end of the
+   world, but it would be more correct to have 2185 and 2185, and we can
+   accomplish
 that simply by making the first fraction half the *big*
+   step instead of half the small step.
+
+   If we ever move to coordinates with 8 fractional bits, the
+   corresponding values become 8 and 10 out of 256, where 9 and 9 would
+   be better.
+
+   Similarly in the X direction.
+
+commit 98bb0a509f401563b8e6e15f4ee26947e9c3d419
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 04:24:04 2009 -0400
+
+   Delete the flags field from fast_path_info_t
+
+commit b7fb7e6c700891a12300aaf5c8a4c4b2584a194f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 02:47:39 2009 -0400
+
+   Eliminate NEED_PIXBUF flag.
+
+   Instead introduce two new fake formats
+
+   PIXMAN_pixbuf
+   PIXMAN_rpixbuf
+
+   and compute whether the source and mask have them in
+   find_fast_path(). This lead to some duplicate entries in the fast path
+   tables that could then be removed.
+
+commit 542b79c30d88788028d391285aa8cd038e96f2b3

+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 02:11:12 2009 -0400
+
+   Compute src_format outside the fast path loop.
+
+   Inside the loop all we have to do is check that the formats match.
+
+commit 12108ecbe488d1b65e6787585e1caa57af17a008
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 01:53:54 2009 -0400
+
+   Eliminate the NEED_COMPONENT_ALPHA flag.
+
+   Instead introduce two new fake formats
+
+   PIXMAN_a8r8g8b8_ca
+   PIXMAN_a8b8g8r8_ca
+
+   that are used in the fast path tables for this case.
+
+commit 4686d1f53b09b5dd12df6f10f8c0403b2a1e2427
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 12 01:35:56 2009 -0400
+
+   Eliminate the NEED_SOLID_MASK flag
+
+   This flag was used to indicate that the mask was solid while still
+   allowing a specific format to be required. However, there is not
+   actually any need for this because the fast paths all used
+
   _pixman_image_get_solid() which already allowed arbitrary formats.
+
+   The one thing that had to be dealt with was component alpha. In
+   addition to interpreting the presence of the NEED_COMPONENT_ALPHA
+   flag, we now also interprete the *absence* of this flag as a
+   requirement that the mask does *not* have component alpha.
+
+   Siarhei Siamashka pointed out that the first version of this commit
+   had a bug, in which a NEED_SOLID_MASK was accidentally not turned into
+   a PIXMAN_solid in the ARM NEON implementation.
+
+commit 2ef8b394d72d6c13f96347626b09613f805d9f8c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 19 06:14:38 2009 -0400
+
+   Use the destination buffer directly in more cases instead of fetching.
+

+ When the destination buffer is either a8r8g8b8 or x8r8g8b8, we can use
+ it directly instead of fetching into a temporary buffer. When the
+ format is x8r8g8b8, we require the operator to not make use of
+
destination alpha, but when it is a8r8g8b8, there are no restrictions.
+
+ This is approximately a 5% speedup on the poppler cairo benchmark:
+
+ [#] backend test min(s) median(s) stddev. count
+
+ Before:
+ [0] image poppler 6.661 6.709 0.59% 6/6
+
+ After:
+ [0] image poppler 6.307 6.320 0.12% 5/6
+
+commit 13f4e02b1429d62b08487beebd8697887a5a9608
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Nov 10 15:48:36 2009 -0500
+
+ test: Move image_endian_swap() from blitters-test.c to utils.[ch]
+
+commit 24e203a8a8394edb3a89f3d6be1bdcab41fbe7f9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Nov 10 15:45:17 2009 -0500
+
+ test: Move random number generator from blitters/scaling-test to utils.[ch]
+
+commit cc34554652bf9a402127fa06a03105b49a425895
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
Tue Nov 10 15:32:12 2009 -0500
+
+ test: In scaling-test use the crc32 from utils.c
+
+commit b465b8b79dc008f4f4dcddf45754fef260e51619
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Nov 10 15:29:20 2009 -0500
+
+ test: Move CRC32 code from blitters-test to new files utils.[ch]
+
+commit 56bd91340102e915a239d2afa1db223109cf6639
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Nov 10 14:58:19 2009 -0500
+
+ test: Rename utils.[ch] to gtk-utils.[ch]
+
+commit 7be529f3bd6455259e24163a27a0a5a761ee0cc3

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Sep 20 17:37:36 2009 -0400
+
+   sse2: Add a fast path for OVER 8888 x 8 x 8888
+
+   This is a small speedup on the swfdec-youtube benchmark:
+
+   Before:
+   [0]   image   swfdec-youtube   5.789   5.806   0.20%   6/6
+
+   After:
+   [0]   image   swfdec-youtube   5.489   5.524   0.27%   6/6
+
+   Ie., approximately
 5% faster.
+
+commit abefe68ae2a422fecf315f17430c0cda5561be66
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:14:14 2009 +0200
+
+   ARM: enabled 'neon_composite_add_8000_8000' fast path
+
+commit 635f389ff477a0afe82c6038a835e262d5034d99
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:13:31 2009 +0200
+
+   ARM: enabled 'neon_composite_add_8_8_8' fast path
+
+commit 7e1bfed6767774a43c288ab780f62a20eccff805
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:12:56 2009 +0200
+
+   ARM: enabled 'neon_composite_add_n_8_8' fast path
+
+commit deeb67b13a0f9267b59d9755e7a0102da29a6747
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:12:14 2009 +0200
+
+   ARM: enabled 'neon_composite_over_8888_8888' fast path
+
+commit f449364849b2cc75a48cc3b35d2a373d38b71c09
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:11:32 2009 +0200
+
+   ARM:
 enabled 'neon_composite_over_8888_0565' fast path
+
+commit 2dfbf6c4a520da4647bb480a124dfe5cbece225b

+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:10:55 2009 +0200
+
+   ARM: enabled 'neon_composite_over_8888_n_8888' fast path
+
+commit 43824f98f1fc41d923dd8ddd97e74942c01aadf8
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:10:09 2009 +0200
+
+   ARM: enabled 'neon_composite_over_n_8_8888' fast path
+
+commit 189d0d783cc62aa3b739218689042c9235c04fa1
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:09:31 2009 +0200
+
+   ARM: enabled 'neon_composite_over_n_8_0565' fast path
+
+commit cccfc87f4f597f99b74691af172126a2346f9239
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:08:48 2009 +0200
+
+   ARM: enabled 'neon_composite_src_0888_0888' fast path
+
+commit e89b4f8105beaa27b6098a5dc7dfec62879ebd1d
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:
  Wed Nov 4 17:08:09 2009 +0200
+
+   ARM: enabled 'neon_composite_src_8888_0565' fast path
+
+commit 2d54ed46fb7428aa1d9f114450554fc33acff2c4
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:07:36 2009 +0200
+
+   ARM: enabled 'neon_composite_src_0565_0565' fast path
+
+commit 5d695cb86eaad151c9402ead5dfb7e867ff58d29
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 17:05:46 2009 +0200
+
+   ARM: added 'bindings' for NEON assembly optimized functions
+
+   These functions serve as 'adaptors', converting standard internal
+   pixman fast path function arguments into arguments expected
+   by assembly functions.
+
+commit dcfade3df96559ce942df5d16b7915c94f7d9e57
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>

+Date: Wed Nov 4 15:29:27 2009 +0200
+
+   ARM: enabled new implementation for pixman_fill_neon
+
+commit bcb4bc79321659635d706bade25851cddf563856
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:
  Wed Nov 4 15:18:38 2009 +0200
+
+   ARM: introduction of the new framework for NEON fast path optimizations
+
+   GNU assembler and its macro preprocessor is now used to generate
+   NEON optimized functions from a common template. This automatically
+   takes care of nuisances like ensuring optimal alignment, dealing with
+   leading/trailing pixels, doing prefetch, etc.
+
+   Implementations for a lot of compositing functions are also added,
+   but not enabled.
+
+commit 1eff0ab487efe4720451b8bd92c8423b9772a69a
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Nov 4 14:25:27 2009 +0200
+
+   ARM: removed old ARM NEON optimizations
+
+commit b8898d77d0e7cc1c50321fcb216af3ba6c634959
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Nov 7 14:47:22 2009 -0500
+
+   Define PIXMAN_USE_INTERNAL_API in pixman-private.h
+
+   Instead of mucking around with CFLAGS in configure.ac, preventing
+   users from setting their own
 CFLAGS, just define the
+   PIXMAN_USE_INTERNAL_API and PIXMAN_DISABLE_DEPRECATED in
+   pixman-private.h
+
+commit 67bf739187cd43b5fff754b25693f76bb788d1fa
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Oct 27 09:11:28 2009 -0400
+
+   Include <inttypes.h> when compiled with HP's C compiler.
+
+   Fixes bug 23169.
+
+commit 384fb88b905823e62c1f1733a20073bfea15d411
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Oct 27 12:25:13 2009 +0200

+
+   C fast path function for 'over_n_1_8888'
+
+   This function is needed to improve performance of xfce4 terminal.
+   Some other applications may potentially benefit too.
+
+commit a2985da94704af050b4422dca70fd2dd770faba4
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Oct 27 12:11:05 2009 +0200
+
+   C fast path function for 'add_1000_1000'
+
+   This function is needed to improve performance of xfce4 terminal.
+   Some other applications may potentially benefit
 too.
+
+commit 5f429e45106d79c48ee102987ef84be54fd421d8
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Oct 23 20:56:30 2009 +0300
+
+   blitters-test updated to also randomly generate mask_x/mask_y
+
+commit 0d5562747ce25ecac06f4c44e935662eb6ee328a
+Author: André Tupinambá <andrelrt@gmail.com>
+Date: Sat Sep 19 23:01:50 2009 -0400
+
+   Add fast path scaled, bilinear fetcher.
+
+   This adds a bilinear fetcher for the case where the image has a scaled
+   transformation, does not repeat, and the format {ax}8r8g8b8.
+
+   Results for the swfdec-youtube benchmark
+
+   Before:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   swfdec-youtube   7.841   7.915   0.72%   6/6
+
+   After:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   swfdec-youtube   6.677   6.780   0.94%   6/6
+
+   These
 results were measured on a faster machine than the ones in the
+   previous commit, so the numbers are not comparable.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>

+
+commit 88323c5abe68906472049537b54b0e7eea343f43
+Author: André Tupinambá <andrelrt@gmail.com>
+Date: Sat Sep 19 09:32:37 2009 -0400
+
+   Speed up bilinear interpolation.
+
+   Speed up bilinear interpolation by processing more than one component
+   at a time on 64 bit architectures, and by precomputing the dist{ixiy}
+   products on 32 bit architectures.
+
+   Previously bilinear interpolation for one pixel would take 24
+   multiplications. With this improvement it takes 12 on 64 bit, and 20
+   on 32 bit.
+
+   This is a small but consistent speedup on the swfdec-youtube
+   benchmark:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   Before:
+   [0]   image   swfdec-youtube   18.010   18.020   0.09%   4/5
+

+   After:
+   [0]   image   swfdec-youtube   17.488   17.584   0.22%   5/6
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit f0c157f888185279681bad305973f246dca2e535
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Sep 27 09:41:25 2009 -0400
+
+   Extend scaling-test to also test bilinear filtering.
+
+commit eab882ef38509bfc9719fcee6020d882ee030694
+Author: Jeremy Huddleston <jeremyhu@freedesktop.org>
+Date: Wed Oct 21 12:47:27 2009 -0700
+
+   This is not a GNU project, so declare it foreign.
+
+   On Wed, 2009-10-21 at 13:36 +1000, Peter Hutterer wrote:
+   > On Tue, Oct 20, 2009 at 08:23:55PM -0700, Jeremy Huddleston wrote:
+   > > I noticed an INSTALL file in xlsclients and libXvMC today, and it
+   > > was quite annoying to work around since 'autoreconf -fvi' replaces
+   > > it and git wants to commit it. Should these files even be in git?
+   > > Can I nuke them for the betterment of humanity
 and since they get
+   > > created by autoreconf anyways?

+ >
+ > See https://bugs.freedesktop.org/show_bug.cgi?id=24206
+
+ As an interim measure, replace AM_INIT_AUTOMAKE([dist-bzip2]) with
+ AM_INIT_AUTOMAKE([foreign dist-bzip2]). This will prevent the generation
+ of the INSTALL file. It is also part of the 24206 solution.
+
+ Signed-off-by: Jeremy Huddleston <jeremyhu@freedesktop.org>
+
+commit dc46ad274a47d351bacf3c2167c359d23dbaf8b3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Oct 19 20:32:37 2009 -0400
+
+ Make walk_region_internal() use 32 bit dimensions
+
+commit bb3698d47925db77925810c3128be1641f455c60
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Oct 19 20:31:54 2009 -0400
+
+ Make pixman_compute_composite_region32() use 32 bit dimensions
+
+commit 895c281c4094844f9f955621e4ac1e4394d865f0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Oct 19 20:30:22 2009 -0400
+
+
 Change prototype of _pixman_walk_composite_region from int16_t to int32_t
+
+commit 9cd470665b1bb7e0cb810f2457d3788f7c981072
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Oct 19 20:27:36 2009 -0400
+
+ Remove unused color_table and color_table_size fields
+
+commit 8186937637f25088e61c22a3ce1740a56f5d6e13
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Oct 18 03:02:28 2009 -0400
+
+ Remove BOUNDS() macro.
+
+ It was bounding the clip region to INT16_MIN, INT16_MAX, but this was
+ a relic from the X server. We don't need it since we are already
+ restricting the clip region to the geometry of the destination.
+
+commit 9bcfc0ac547277d3a3f4e5ff0922450566ad8be8
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Sep 30 08:02:39 2009 +0200
+

+   --enable-maintainer-mode is gone from configure, so remove it
+
+commit fa49ef81f7b39d32b626ed235958448835e2d2c2
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Sep 17 13:19:04 2009
 +0200
+
+   Add default cases for all switch statements
+
+   Fixes compilation with -Wswitch-default. Compilation with -Wswitch-enums
+   works fine as is.
+
+commit 5c3ef4e9798f3395c55fe7b57df32f77c0de2c71
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Sep 17 13:18:22 2009 +0200
+
+   Fix compile warnings
+
+commit ad484078854572cf640d7ffbb66f1e99328e79b8
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Jul 27 01:21:26 2009 +0300
+
+   ARM: Removal of unused/broken NEON code
+
+commit 358f96d20219b4460bfd8ecf88e69ff10044b577
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Oct 8 13:01:27 2009 -0400
+
+   Fix double semicolon; pointed out by Travis Griggs
+
+commit 93acc10617c88fbf933120c6980ae8ef80cf94f0
+Author: Gerdus van Zyl <gerdusvanzyl@gmail.com>
+Date: Tue Sep 29 12:28:03 2009 +0200
+
+   Fix build with Visual Studio 2008
+
+   moved __m64 ms declaration in sse2_composite_over_x888_8_8888 to top
+   of function
 so it compiles with visual studio 2008
+
+commit f135f74ff3a4f55262b611b452566daff5e936ce
+Author: Andrea Canciani <ranma42@gmail.com>
+Date: Sun Sep 27 11:40:52 2009 +0200
+
+   Fix composite on big-endian systems.
+
+   Data narrower than 32bpp is padded to an unsigned long and on
+   big-endian systems this shifts the value by the padding bits.

+
+commit 15c14691a71daa29c86cce40ac0b4a14acf8f2fc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Sep 26 13:12:14 2009 -0400
+
+   Fix fetch-test for big-endian systems.
+
+   Data narrower than 32bpp should be stored in the correct
+   endian. Reported by Andrea Canciani.
+
+commit 02d70998885065bcea55cb2a8bfa75473083bc17
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Sep 24 08:57:26 2009 -0400
+
+   Add missing break in composite.c
+
+commit 8ce004af3670a183c78fc7c61fbfcfd8c7f17e54
+Author: Guillem Jover <guillem@hadrons.org>
+Date: Tue Sep 22 19:51:13 2009 +0200
+
+   pixman: Update
 .gitignore
+
+   Generalize to catch all .pc files. Add more tests.
+
+   Signed-off-by: Guillem Jover <guillem@hadrons.org>
+
+commit 59e877cffe6497d865031d79e9a742414407d544
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Sep 24 08:10:00 2009 -0400
+
+   In the compositing test, Don't try to use component alpha with solid fills.
+
+   It's not supported yet.
+
+commit 16adb09c8a003936a1ef17042776a725c9aa6813
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 11:33:18 2009 -0400
+
+   Update CRC value in blitters-test for the new bug fixes
+
+commit e156964d3e005be3dbc9ff80580d98c6dd617afd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 08:16:56 2009 -0400
+
+   Fix bug in blitters-test with BGRA formats.
+
+   When masking out the x bits, blitter-test would make the incorrect

+ assumption that the they were always in the topmost position. This is
+ not correct for formats of type
PIXMAN_TYPE_BGRA.
+
+commit eb72bfb97d10283964c070f0a0e26f0520a22ff3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 09:43:14 2009 -0400
+
+ Fix bugs in fetch_*_b2g3r3().
+
+ The red channel should only be shifted five positions, not six.
+
+commit b4f6113cb975110c33f607aa39d19290f58be398
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Sep 24 07:48:46 2009 -0400
+
+ Fix bugs in a1b2g1r1.
+
+ The first bug is that it is treating the input as if it were a1r1g1b1;
+ the second one is that the red channel should only be shifted two
+ bits, not three.
+
+commit efdf15e677d506c2049a34e92eb2172712101afa
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 08:48:04 2009 -0400
+
+ Fix shift bug in fetch_scanline/pixel_a2b2g2r2()
+
+ 0x30 * 0x55 is 0xff0, so the red channel should be shifted four bits,
+ not six.
+
+commit 679c2dabda094491599ce770ddba11611d08efc8
+Author: Søren Sandmann Pedersen
<sandmann@redhat.com>
+Date: Fri Sep 18 08:13:46 2009 -0400
+
+ Fix four bit formats.
+
+ The original Render code used to index pixels with their position in
+ bits in the image. When the scanline code was introduced pixels were
+ indexed in bytes, but the FETCH/STORE_4/8 macros still assumed bits.
+
+ This commit fixes that by making the FETCH/STORE_4 macros first
+ convert the index to bit position.
+
+commit 3d1714cd1f8ae7d47ad5f01a1140133ae71a00e2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Sep 20 16:50:37 2009 -0400

+
+   Hide PIXMAN_OP_NONE and PIXMAN_N_OPERATORS behind PIXMAN_INTERNAL_API.
+
+   These cannot sanely be used by applications since they may change in
+   new versions.
+
+commit 0683f34c418bc5fb2fa5e2a41bdc102195edbe67
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 08:06:32 2009 -0400
+
+   Add a few notes about testing to TODO
+
+commit 48ba7d946146ea7b0e33e963942bedde22a3b806
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Sep 18 09:11:04 2009 -0400
+
+   Fix alpha handling for 10 bpc formats.
+
+   These generally extracted the 2 bits of alpha, then shifted them 62
+   bits and replicated across 16 bits. Then they were shifted another 48
+   bits, making the resulting alpha channel 0.
+
+commit c673c83e070ed2392c00716fe20a80a798588b39
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Sep 24 05:22:33 2009 -0400
+
+   Return result from pixman_image_set_transform().
+
+   Previously it would always return TRUE, even when malloc() had failed.
+
+commit eb16d171882d200a390345ec8a3db1b931e9676a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Sep 15 07:43:23 2009 -0400
+
+   Revert "Enable component alpha on solid masks."
+
+   For consistency we will probably want to allow component alpha to be
+   set on all masks at some point, but this commit only enabled it for
+   solid
 images.
+
+   This reverts commit 29e22cf38e8abc54b9dddbdeb3909d02866a82a0.
+
+commit b96e37f8d0f5c94f5d117e1622d7cae7246d6345
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Tue Sep 15 13:16:17 2009 +0100
+

+   [Makefile] Set the SIMD specific CFLAGS for inspecting asm.
+
+commit 273e89750b3ce901fa6769a835fa441ee986d508
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Sep 14 18:48:32 2009 -0400
+
+   Remove optimization for 0xffffffff and 0xff the add_n_8888_8888_ca fast path
+
+   This is an ADD operation, not an OVER. Fixes bug 23934, reported by
+   Siarhei Siamashka.
+
+commit ec7c1affcc66c12af1fc29fd000f9885a5d48320
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Mon Sep 14 22:52:29 2009 +0300
+
+   Don't prefetch from NULL in the SSE2 fast paths.
+
+   On an Athlon64 box prefetch from NULL slows down
+   the rgba OVER rgba fast for predominantly solid sources
+   by up to 3.5x in the one-rounded-rectangle test case
+
    when run using a tiling polygon renderer. This patch
+   conditionalises the prefetches of the mask everywhere
+   where the mask pointer may be NULL in a fast path.
+
+commit 1b5269a585d8dcdb8f5ff9f71113bcf2d5efab26
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Sep 14 06:58:03 2009 -0400
+
+   Reformat test/composite.c to follow the standard coding style.
+
+commit 0431a0af6c566c8990c88dc22fd0dc76fdd72cf2
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Sep 13 18:02:10 2009 +0100
+
+   [test] Exercise repeating patterns for composite.
+
+commit c28e39f17a87cdaa7ce43ec99f2f764cc935f484
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Sep 13 15:04:30 2009 +0100
+
+   [build] Add rule to generate asm for inspection.
+
+commit 823bb1a9430bc0c4735ffefbbe19efe45887e32c
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Sep 13 15:04:54 2009 +0100
+
+   [sse2] Don't emit prefetch 0 for an absent mask

+
+commit 8f2daa7ca25de754522abfb9ed1158d090f00780
+Author:
 Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Sep 13 15:07:08 2009 +0100
+
+   [test] Add composite test from rendercheck
+
+   Iterate over all destination formats for dst, src and composite and
+   compare the result of all oprators with a selection of colours.
+
+commit cda0ee5165812b86a052ceb01830a1d42d02a03b
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Thu Aug 27 09:19:14 2009 +0100
+
+   build: Suppress verbose compile lines
+
+   Compile warnings are being lost in the sea of noise. Automake-1.11 finally
+   introduced AM_SILENT_RULES to suppress the echoing of the compile line for
+   every object. Enable this to bring sanity to the pixman build.
+
+commit 56cc06f89b7db733e5036a00df7aea27cf8d0951
+Merge: 8aff99e 8035df8
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Sep 13 16:32:27 2009 +0100
+
+   Merge branch '0.16'
+
+   Conflicts:
+   configure.ac
+   pixman/pixman-sse2.c
+
+commit
 8035df8bcb01c2df42b8adf8b96c7ac796f384cc
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Aug 16 12:16:46 2009 +0100
+
+   Remove duplicated declaration
+
+   The pixman_tranform_pixman_f_transform() declaration is repeated 4 lines
+   down.
+
+commit 29e22cf38e8abc54b9dddbdeb3909d02866a82a0
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Sep 13 16:26:29 2009 +0100
+
+   Enable component alpha on solid masks.
+

+commit 9fe2628702785e8db45593709c0aec54043a50e7
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sun Sep 13 16:26:52 2009 +0100
+
+   [sse2] Bit-reversing typo: src != dst
+
+commit 8aff99e231dcb83fa6c08e760711b0a1e979d012
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Sep 10 21:33:24 2009 -0400
+
+   Fix off-by-one error in source_image_needs_out_of_bounds_workaround()
+
+   If extents->x2/y2 are equal to image->width/height, then the clip is
+   still inside the drawable, so no workaround is necessary.
+
+commit
 fefe2a5d24591846281bb9bf0e85d42822e1716e
+Author: Gaetan Nadon <memsize@videotron.ca>
+Date: Tue Sep 8 20:06:19 2009 -0400
+
+   Remove unused generated libcomp.pc #23801
+
+commit 2186bc89486f9f11161b0db280a869c6849c867e
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Sep 4 14:14:00 2009 +0300
+
+   Change CFLAGS order for PPC and ARM configure tests
+
+   CFLAGS are always appended to the end of gcc options when compiling
+   sources in autotools based projects. Configure tests should do the
+   same. Otherwise build fails on PPC when using CFLAGS="-O2 -mno-altivec"
+   for example. Similar problem affects ARM.
+
+commit 15304e3cddd6568ba6d5d1d3030568c3db7b05cc
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Sep 2 19:46:47 2009 +0300
+
+   ARM: Remove fallback to ARMv6 implementation from NEON delegate chain
+
+   This can help to fix build problems with '-mthumb' gcc option in CFLAGS.
+   ARMv6 optimized code
 can't be compiled for thumb (because of its inline
+   assembly) and gets automatically disabled in configure. Reference
+   to it from NEON optimized code resulted in linking problems.
+
+   Every ARMv6 optimized fast path function also has a better NEON
+   counterpart, so there is no need to fallback to ARMv6. Shorter
+   delegate chain should additionally result in a bit better performance.

+
+commit 2679d93e22b4f3922a39bc53680f1aab6ea7c73c
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Sep 4 14:14:00 2009 +0300
+
+   Change CFLAGS order for PPC and ARM configure tests
+
+   CFLAGS are always appended to the end of gcc options when compiling
+   sources in autotools based projects. Configure tests should do the
+   same. Otherwise build fails on PPC when using CFLAGS="-O2 -mno-altivec"
+   for example. Similar problem affects ARM.
+
+commit 91232ee40d8499cb91ad27717f751f15c805b4a6
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:
  Wed Sep 2 19:46:47 2009 +0300
+
+   ARM: Remove fallback to ARMv6 implementation from NEON delegate chain
+
+   This can help to fix build problems with '-mthumb' gcc option in CFLAGS.
+   ARMv6 optimized code can't be compiled for thumb (because of its inline
+   assembly) and gets automatically disabled in configure. Reference
+   to it from NEON optimized code resulted in linking problems.
+
+   Every ARMv6 optimized fast path function also has a better NEON
+   counterpart, so there is no need to fallback to ARMv6. Shorter
+   delegate chain should additionally result in a bit better performance.
+
+commit 61b616067c3e8b2ff84fbf57f479a90cc9fa5344
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Mon Aug 31 23:02:53 2009 +0100
+
+   Default to optimised builds when using a Sun Studio compiler.
+
+   Autoconf's AC_PROG_CC sets the default CFLAGS to -O2 -g for
+   gcc and -g for every other compiler. This patch defaults
+   CFLAGS to the equivalent
 -O -g when we're using Sun Studio's cc
+   if the user or site admin hasn't already set CFLAGS.
+
+commit 20acda6fde8441e18aab33980a33b099a16063eb
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Mon Aug 31 20:27:32 2009 +0100
+
+   Work around a Sun Studio 12 code generation bug involving _mm_set_epi32().
+
+   Calling a static function wrapper around _mm_set_epi32() when not
+   using optimisation causes Sun Studio 12's cc to emit a spurious

+   floating point load which confuses the assembler. Using a macro wrapper
+   rather than a function steps around the problem.
+
+commit e30c0037d44bf76a26182080be24c7037d7be5b5
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Mon Aug 31 20:24:04 2009 +0100
+
+   Work around differing _mm_prefetch() prototypes on Solaris.
+
+   Sun Studio 12 expects the address to prefetch to be
+   a const char pointer rather than a __m128i pointer or
+   void pointer.
+
+commit 29e7d6063f7b93dd4fde3d42a2931ec0f55158c3
+Author:
 M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Mon Aug 31 23:02:53 2009 +0100
+
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+
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+   CFLAGS to the equivalent -O -g when we're using Sun Studio's cc
+   if the user or site admin hasn't already set CFLAGS.
+
+commit e7018685f0618640221ebc61446ee98ea3056bbb
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Mon Aug 31 20:27:32 2009 +0100
+
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+   using optimisation causes Sun Studio 12's cc to emit a spurious
+   floating point load which confuses the assembler. Using a macro wrapper
+   rather than a function steps around the problem.
+
+commit 04ade7b68c620a62daff6212eee4d1b96bfbc3c9
+Author: M Joonas
 Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Mon Aug 31 20:24:04 2009 +0100
+
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+
+   Sun Studio 12 expects the address to prefetch to be
+   a const char pointer rather than a __m128i pointer or
+   void pointer.
+
+commit 698b686d58c510e1b8a9183750d00cbd9ed504b2

+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Aug 28 22:34:21 2009 +0300
+
+   ARM: workaround for gcc bug in vshll_n_u8 intrinsic
+
+   Some versions of gcc (cs2009q1, 4.4.1) incorrectly reject
+   shift operand having value >= 8, claiming that it is out of
+   range. So inline assembly is used as a workaround.
+
+commit 3e228377f9e7159a52a3716d8e4930c5a9dbb1af
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Aug 28 22:34:21 2009 +0300
+
+   ARM: workaround for gcc bug in vshll_n_u8 intrinsic
+
+   Some versions of gcc (cs2009q1, 4.4.1) incorrectly reject
+   shift operand having value >= 8, claiming
 that it is out of
+   range. So inline assembly is used as a workaround.
+
+commit 632125d4108f9a53d625a6b997832fa45a295807
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 08:27:33 2009 -0400
+
+   Enable the x888_8_8888 sse2 fast path.
+
+commit b02b644d7017f794be2296c6354e44fd119d2477
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Sep 2 16:09:32 2009 -0400
+
+   Set version number to 0.16.1
+
+commit d465f854b3d5f2ffcc122aebfbead2d64cca7169
+Author: Makoto Kato <m_kato@ga2.so-net.ne.jp>
+Date: Tue Sep 1 10:59:05 2009 +0900
+
+   Add CPU detection for VC++ x64
+
+   VC++ x64 has no inline assembler and x64 mode supports SSE2.
+   So, it is unnecessary to call cpuid.
+
+commit 097342a65d81fb957dfc17486f615f887540e146
+Author: Makoto Kato <m_kato@ga2.so-net.ne.jp>
+Date: Tue Sep 1 10:59:05 2009 +0900
+
+   Add CPU detection for VC++ x64
+
+   VC++ x64 has no inline assembler and x64 mode supports SSE2.

+   So, it is
 unnecessary to call cpuid.
+
+commit 64085c91b6a1deca4007b18d63b707b896653ee9
+Author: Søren Sandmann Pedersen <ssp@dhcp-100-3-19.bos.redhat.com>
+Date: Tue Sep 1 08:23:23 2009 -0400
+
+   Change names of add_8888_8_8 fast paths to add_n_8_8
+
+   The source is solid in those.
+
+commit 7af985a69a9147e54dd5946a8062dbc2e534b735
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 28 08:14:04 2009 -0400
+
+   Post-release version bump
+
+commit 57812465bf975e943e78d59dabbd5e6bb2ad87ef
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 28 07:55:30 2009 -0400
+
+   Pre-release version bump
+
+commit 9e1a34a0d177e8c2381f419b0a04310da8cdde2b
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Fri Aug 28 06:31:06 2009 -0400
+
+   _pixman_run_fast_path: typo
+
+   This is one example of a compiler warning that was lost amit the build
+   noise.
+
+   The error here is that in a list of required conditions we used ';'
+   instead
 of '&&' with the result of continuing to use the fast-path
+   even if we had a wide mask.
+
+   Another error is that it was testing src, not mask as it should.
+
+commit 83d607cbf1d3852f91b52a427bee30fffc3029e7
+Author: Makoto Kato <m_kato@ga2.so-net.ne.jp>
+Date: Fri Aug 28 04:09:15 2009 -0400
+
+   Remove spurious spaces in pixman-x64-mmx-emulation.h
+
+commit ce966f4d8e8aa9a4465e2ab28666bae891194a72
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 12 14:08:58 2009 -0400

+
+   Check if we have posix_memalign() in configure.ac. [23260, 23261]
+
+   Fall back to malloc() in blitters-test.c if we don't.
+
+commit 29c2ae4a0cf924cb011467687a4c43237fb2316c
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Aug 12 20:22:24 2009 +0300
+
+   ARM: a fix to pass blitters-test for 'neon_composite_over_n_8_0565'
+
+   Inline assembly for handling <8 pixels width did not pass blitters-test.
+   Fortunately gcc has no problems compiling
 alternative implementation
+   which is using RVCT style intrinsics, so it can be used instead.
+
+commit ed4598f08a359346d14fe5b2bbb7b74c40332b18
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Aug 11 14:03:24 2009 -0400
+
+   Post-release version bump
+
+commit bfdae053eaff528aa869bc05a0520ab22d540a08
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Aug 11 13:56:16 2009 -0400
+
+   Pre-release version-bump
+
+commit d6016d406a649f7a95bec2a477dfd89ba280188d
+Merge: 93923c6 e084351
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Aug 11 02:04:40 2009 -0400
+
+   Merge branch 'blitter-test'
+
+commit 93923c626f2df18e29e215410e6d4bb2f5c1616f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Aug 10 20:47:36 2009 -0400
+
+   Fix x/y mixup in bits_image_fetch_pixel_convolution()
+
+   Bug 23224, reported by Michel Dänzer.
+
+commit e084351b13faad6a3ba67808b5721957b51d16f0
+Author: Søren Sandmann Pedersen
 <sandmann@redhat.com>
+Date: Fri Aug 7 00:45:53 2009 -0400
+

+   Update CRC value in blitters-test.
+
+   At this point, the SIMD, SSE2, MMX and general implementations all
+   agree.
+
+commit ba5c5325e77b36374d3be22bd92816c332a321bb
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 00:25:56 2009 -0400
+
+   Various formatting fixes
+
+commit cc5c59b3f25dc595ce17a876e89ca549bb477e46
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 16:28:10 2009 -0400
+
+   Add the ability to print intermediate CRC values
+
+commit 0bc4adae3eb758a2cd9026397c284bd6cc7bcd65
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 15:53:33 2009 -0400
+
+   Reenable commented-out tests in blitter-test.
+
+   The crashes and valgrind issues are all fixed at this point.
+
+commit 9ee18806a944ddde36dc1b045f89f02d025cbe48
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Aug 3 00:01:01 2009 +0300
+
+
    One more update to blitters-test - use aligned memory
+   allocations in order in order to make reproducibility
+   of alignment sensitive bugs more deterministic
+   Also testing of masks is reenabled
+
+commit 4fc0f9dd456bb4ad1f47e1733b02a3b491f425ed
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Sat Aug 1 02:20:12 2009 +0300
+
+   HACK: updated test to better cover new neon optimizations
+
+commit 67769ad5bf15450d0fd0d83643e3533a9f563916
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Jul 22 01:29:51 2009 +0300
+
+   Test program for stressing the use of different formats and operators
+
+   The code and overall method is mostly based on scaling-test. This one

+ focuses on trying to stress as many different color formats and types
+ of composition operations as possible.
+
+ This is an initial implementation which may need more tuning. Also
+ not all color format and operator combinations are actually used.
+
+
  When cpu specific optimizations are disabled, this test provides
+ identical deterministic results on x86, PPC and ARM.
+
+ Script blitters-test-bisect.rb now works in non-stop mode, until
+ it finds any problem. This allows to run it for example overnight
+ in order to test a lot more variants of pixman calls and increase
+ chances of detecting problems in pixman. Just like with scaling-test,
+ running blitters-test binary alone with no command line arguments
+ runs a small predefined number of tests and compares checksum
+ with a reference value for quick verification.
+
+commit 51f597ad3258dd85b4620ac2bf0df8ca2e0ed182
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 12:00:07 2009 -0400
+
+ Delete commented out code in pixman-vmx.c
+
+commit a590eabead0a0c405a7293d8689b9992de5a689b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:53:50 2009 -0400
+
+ Misc formatting fixes for pixman-vmx.c
+
+commit
 0ebb587e2460024fb306597799ae4974441511ec
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:48:22 2009 -0400
+
+ In vmx_combine_atop_reverse_ca() extract alpha after inversing
+
+commit 3d2f00783f2972ba5311937057ea8d452f942a36
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:46:09 2009 -0400
+
+ Really fix vmx_combine_over_reverse_ca()
+
+ The inverse destination alpha is just one component, not four.
+
+commit 2f62a4f46c1e99ddb1b7ca6d5db9410d12f32e63
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:40:42 2009 -0400

+
+   Fix vmx_combine_out_reverse_ca()
+
+   The source alpha is just one component, not four.
+
+commit 7e58323385e442fb2cea207780db5e30be88be96
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:38:03 2009 -0400
+
+   Fix vmx_over_reverse_ca()
+
+   Destination alpha must be extracted after inversing, otherwise we end
+   up with 0xFFs
 in the rgb channels.
+
+commit 2382bd9e2724944a05ce8a581e9ddc31e299a0c6
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:35:20 2009 -0400
+
+   Multiply with the alpha of dest, not inverse alpha
+
+commit 498df0f0bf2437130ed305fb757ae0fae90bebb7
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:32:31 2009 -0400
+
+   Fix vmx_combine_vmx_atop_ca()
+
+   It didn't compute the mask correct before.
+
+commit 9650cd7432ef03c05895df04940e2ab6245f2618
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:26:23 2009 -0400
+
+   Fix vmx_combine_over_ca().
+
+   In the non-vector code, the mask needs to be multiplied with source
+   alpha.
+
+commit 38b9589fe6b14c822a2a4000df364d132e390f7a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:21:43 2009 -0400
+
+   In vmx_combine_out_ca() multiply with the alpha of the negated vdest.
+
+commit de180baba3a3e7eedeb09ff7d5f4d3eff3ffc6f4
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:16:31 2009 -0400

+
+   Fix vmx_combine_out_ca()
+
+   It should multiply with just the destination alpha channel, not all
+   four channels.
+
+commit 5191421d1f143cca76afa1f4fbffa68f89a5d393
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 11:07:16 2009 -0400
+
+   Do the full four-component IN computation in vmx_combine_in_ca().
+
+commit 27fb8378fdae930475cf4528c539a78bfbd751c5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 10:54:16 2009 -0400
+
+   Fix bug in vmx_combine_xor_ca()
+
+   The destination needs to be inverted before the alpha channel is
+   extracted; otherwise, the RGB channels of da will be 0xff.
+
+commit c750667d7ac542dfa922a7970961b7095b44b8d3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 01:07:01 2009 -0400
+
+   Make pix_multiply bit-exact
+
+commit 6243a0a015043f39531b98b9e8c4167f8bd47d82
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Aug 6 23:50:32 2009 -0400
+
+   Change the SSE2 versions of pix_add_multiply() to produce bit-exact results.
+
+commit 404f4a6f3e71de5e411cb3bb1107d8ffb7c52e62
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Aug 6 23:52:11 2009 -0400
+
+   Fix a couple of alpha==0 vs src==0 issues in pixman-sse2.c
+
+commit d9f80370a4d2ab54688e75256b3ea4267d8cc602
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Aug 6 23:05:36 2009 -0400
+
+   Rename mmx_composite_add_8888_8_8() to mmx_composite_add_n_8_8().
+
+commit 04619c3636697684fdd9ada9842845f6c8dd3914
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Thu Aug 6 22:46:50 2009 -0400
+
+   Fix a couple more alpha==0 vs src==0 bugs in pixman-mmx.c
+
+commit a075a870fd7e1fa70ae176d5089c695011667388
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Aug 6 22:42:25 2009 -0400
+
+   Make pix_add_mul() in pixman-mmx.c
 produce exact results.
+
+   Previously this routine would compute (x * a + y * b) / 255. Now it
+   computes (x * a) / 255 + (y * b) / 255, so that the results are
+   bitwise equivalent to the non-mmx versions.
+
+commit f7463ffafb8876c1f47ed9c527df33d45255e16c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Aug 6 20:29:44 2009 -0400
+
+   Rewrite the two-component arithmetic macros.
+
+   Previously they were not bit-for-bit equivalent to the one-component
+   versions. The new code is also simpler and easier to read because it
+   factors out some common sub-macros.
+
+   The x * a + y * b macro now only uses four multiplications - the
+   previous version used eight.
+
+commit 04ae08992f6381a8ffb50d8cba37753fdb58e3bf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Aug 6 20:41:04 2009 -0400
+
+   Fix a bunch of srca == 0 checks that should be src == 0 in pixman-mmx.c
+
+commit 8bb58a3ce83d6b9c1f6796ce8e62450bdaa52cf0
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 21:24:50 2009 -0400
+
+   Don't run fast paths if the format requires wide compositing.
+
+   This could happen because the wide formats would still be considered
+   solid if the image was 1x1 and repeating.
+
+commit d937b622389797a8c605b2cc50c24ca759dc57d2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 21:16:14 2009 -0400
+

+ Fix bug in combine_mask_alpha_ca()
+
+ If the mask was 0xffffffff, the source would end up being shifted
+ twice by A_SHIFT.
+
+commit 0d576b965c34a6d89b00f7b93dba6a7b8737c731
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 20:40:36 2009 -0400
+
+ Fix another case of changing the solid source.
+
+ This time in fast_path_composite_n_8888_8888().
+
+commit 8b82cbb69197f9c367069a77ba992f3163d40230
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 20:31:41 2009 -0400
+
+ Fix incorrect
optimization in combine_over_ca().
+
+ Previously the code assumed that an alpha of 0 meant that no change
+ would take place. This is incorrect because an alpha of 0 can happen
+ as the result of the source having alpha=0, but rgb != 0.
+
+commit ec8b36f01030fd2fa67595f2aef4ca568b060899
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 18:18:37 2009 -0400
+
+ Don't change the constant source in fast_composite_over_n_8888_0565.
+
+commit de8fff746bfa80278f85859bef2dc0ab166f7a69
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Aug 5 16:17:52 2009 -0400
+
+ Fix bugs in combine_over_reverse_ca().
+
+ The computation cannot be optimized away when alpha is 0 because that
+ can happen when the source has alpha zero and rgb non-zero.
+
+commit 7b1df41b6110424b8dca9fa655dbc8dd95a76882
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jul 31 17:27:38 2009 -0400
+
+ Add a dirty bit to the image struct,
and validate before using the image.
+
+ This cuts down the number of property_changed calls significantly.
+

+commit 942c4ac28209381668208a39ccc9aec4f11bf63f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jul 31 10:39:41 2009 -0400
+
+   Add sse2 version of add_n_8888_8888()
+
+commit 23d38201165876c031d314f73e09a75afcac4f00
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jul 31 10:26:10 2009 -0400
+
+   Add a fast path for the add_n_8888_8888() operation.
+
+   It shows up on gnome-terminal traces.
+
+commit c606a05213d1fe5d73b39454407414a2a245da39
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jul 31 07:29:31 2009 -0400
+
+   Move bounds checks for REPEAT_NONE to get_pixel()
+
+   On a P4, this is a large speedup for the swfdec-fill-rate-2xaa trace:
+
+   After:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   swfdec-fill-rate-2xaa
  33.061   33.061   0.00%   1/1
+
+   Before:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   swfdec-fill-rate-2xaa   40.342   40.342   0.00%   1/1
+
+   Pixman 0.14.0 produces this:
+
+   [#] backend   test   min(s) median(s) stddev. count
+   [0]   image   swfdec-fill-rate-2xaa   36.896   36.896   0.00%   1/1
+
+commit 1bec3e8395a307812b25fb195823ac7cf2915340
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 30 10:51:38 2009 -0400
+
+   Remove leftover 0xffffffff in repeat()
+
+commit 1b98166b016af5fa374ad534d53b772c7fd2c4a5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 30 10:45:18 2009 -0400
+

+   Remove unused function
+
+commit 06836d35d26941e826e99fe35e06da50756da641
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 30 10:03:44 2009 -0400
+
+   Misc formatting
+
+commit 7c8959ea3b2ff3d3abf995b3feccc677e15b4e27
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 30 09:58:12 2009 -0400
+
+   Change all the fetch_pixels() functions to only fetch one pixel.
+
+commit 31096446b6866de0a85ca6eb4fb68a45b21c4b49
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 09:43:12 2009 -0400
+
+   Add fetch_pixel_raw_32 and fetch_pixel_32 virtual functions.
+
+   By default both are intialized to bits_image_fetch_pixel_raw(), but if
+   there is an alpha map, then fetch_pixel_32() is set to
+   bits_image_fetch_pixel_alpha().
+
+commit a233b332cd9408d35e57a400874cca6188347cc2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 09:12:51 2009 -0400
+
+   Various renamings and clean-ups
+
+commit 073399b09f073c44dd10b027788c09eddfcdf2e0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 08:58:41 2009 -0400
+
+   Change bits_image_fetch_alpha_pixels() to fetch just one pixel.
+
+commit 6d1dfc3945917b507d40f1f3c1b1cf07858d18dd
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 08:44:40 2009 -0400
+
+   Change bits_image_fetch_pixels_convolution() to fetch just one pixel.
+
+commit b3f849f74f848c407afda1be15b966e1d6eda745
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 08:33:28 2009 -0400
+

+   Change bits_image_fetch_bilinear_pixels() to fetch one pixel at a time.
+
+commit a37383a2c646ee10ebe36d03df6bd1c0f8a75052
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 08:03:44 2009 -0400
+
+   Make the repeat routine work on only one coordinate at a time.
+
+commit a4f3fd3b2592b1b4791075187016ad444c2d60d4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 07:55:27 2009 -0400
+
+   Make bits_image_fetch_nearest() return one pixel.
+
+   Previously it would work on a buffer of coordinates.
+
+commit f382865ebe5e1e8d4b5299b908dab9b719fcb8ec
+Author: Søren Sandmann Pedersen
 <sandmann@redhat.com>
+Date: Tue Jul 28 07:42:34 2009 -0400
+
+   Change bits_image_fetch_transformed() to work one pixel at a time.
+
+   Previously, it would generate a buffer of coordinates, then pass that
+   off to a pixel fetcher, but this caused a large performance regression
+   with the swfdec-fill-rate-2xfsaa cairo trace.
+
+   This is the first step towards fixing that.
+
+commit 4ef2807c3a6697731ada43ddad2fa915ed7cfe11
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 7 00:11:20 2009 -0400
+
+   Only define PIXMAN_TIMERS if timers are actually enabled [bug 23169]
+
+commit 9dec2e352b24bdccaac4f570b8cf12e61a9194ee
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 09:58:52 2009 -0400
+
+   Various updates to the CODING_STYLE document
+
+commit 2abd56e9e3d012fcb0b7c6d459ed4831464c0f2f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 28 04:05:26 2009 -0400
+
+   Add a CODING_STYLE document
 based on the one from cairo.
+

+commit fdd01bcbd473f7a46c66ce8538657e32400974ed
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jul 22 04:51:08 2009 -0400
+
+   Remove a couple of unused variables
+
+commit 845910c200db3f279229da67fbd330d903776777
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jul 22 04:32:07 2009 -0400
+
+   Rename source_pict_class_t to source_image_class_t
+
+commit edd476d5be8f248ea21d9d80cf1986d0ccdecc3b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jul 22 04:28:08 2009 -0400
+
+   Replace a bunch of 'pict's with 'image'
+
+commit 11d888a2837b3fe309348126b4f7c56df559df4e
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Fri Jul 24 09:36:08 2009 +0100
+
+   Explain how we can simplify the radial gradient computation
+
+   Soeren rightfully complained that I had removed all the comments from
+   André's patch, most importantly that explain why the transformation is
+   valid. So add a
 few details to show that B varies linearly across the
+   scanline and how we can therefore reduce the per-pixel cost of evaluating
+   B.
+
+commit 20d2df03059d6a5941464d80e81e8116ebf4dbfe
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Thu Jul 23 19:08:40 2009 +0100
+
+   Fix inversion of radial gradients when r2 > r1
+
+   Fixes: Bug 22908 -- Invalid output of radial gradient
+   http://bugs.freedesktop.org/show_bug.cgi?id=22908
+
+   We also include a modified patch by André Tupinambá <andrelrt@gmail.com>,
+   to pull constant expressions out of the inner radial gradient walker.
+
+commit 84b7df09394ac7237fb42fe25c0fbde77e065a16
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Jul 23 09:54:49 2009 +0200
+
+   Don't warn for empty rectangles, only degenerate ones

+
+commit 1435c8aa3db3b6bde26216e260cc94baba225664
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Jul 21 15:00:52 2009 +0200
+
+   Log errors for invalid rectangles passed to region code
+
+commit
 1796e6bf17a5d20039e098c4e352cd2765ed444e
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Jul 21 14:57:59 2009 +0200
+
+   Simplify code that logs errors
+
+commit 85d56f3f7cb9c90c5af52b28fb6f7c1b14f09f07
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Jul 21 14:50:30 2009 +0200
+
+   Make the text when reporting a broken region more useful
+
+commit a77d4ffeb661d4d75109fc368bded26843662259
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 07:24:40 2009 -0400
+
+   Post-release version bump
+
+commit f3ac1368775542e09f3741d2ad7b72af20bd9663
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 07:20:57 2009 -0400
+
+   Pre-release version bump
+
+commit 7c56911e3b5b97b26dceff9b68d9fed32693d57b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 07:01:10 2009 -0400
+
+   Don't assert when malformed regions are detected.
+
+   Instead print a message to stderr so that it will end up in the
 X log
+   file.
+
+commit f9660ce29ed072c6cbaec711c5d18b9f0ba113ae
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 04:23:56 2009 -0400
+
+   Fix another search and replace issue
+

+commit b3196b63274134a594fc091ec2f8be3b44734411
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 04:18:35 2009 -0400
+
+   Fix search-and-replace issue pointed out by Koen Kooi.
+
+commit 0ff5733c16804d5b10782556eeeade7061924846
+Author: George Yohng <georgefd@oss3d.com>
+Date: Tue Jul 21 03:43:42 2009 -0400
+
+   Add implementation of MMX __m64 functions for MSVC x64.
+
+   Microsoft C++ does not define __m64 and all related MMX functions in
+   x64. However, it succeeds in generating object files for SSE2 code
+   inside pixman.
+
+   The real problem happens during linking, when it cannot find MMX functions
+   (which are not defined as intrinsics for AMD64 platform).
+
+   I have implemented those missing functions using general
 programming.
+
+   MMX __m64 is used relatively scarcely within SSE2 implementation, and the
+   performance impact probably is negligible.
+
+   Bug 22390.
+
+commit 0b95afd259bb839a026955e7fda15b44fa22a805
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Mon Jul 20 14:07:18 2009 +0100
+
+   Fix read of BITS members from a solid image.
+
+   During the fast-path query, the read_func and write_func from the bits
+   structure are queried for the solid image.
+
+   ==32723== Conditional jump or move depends on uninitialised value(s)
+   ==32723==   at 0x412AF20: _pixman_run_fast_path (pixman-utils.c:681)
+   ==32723==   by 0x4136319: sse2_composite (pixman-sse2.c:5554)
+   ==32723==   by 0x4100CD2: _pixman_implementation_composite
+   (pixman-implementation.c:227)
+   ==32723==   by 0x412396E: pixman_image_composite (pixman.c:140)
+   ==32723==   by 0x4123D64: pixman_image_fill_rectangles (pixman.c:322)
+   ==32723==   by 0x40482B7: _cairo_image_surface_fill_rectangles
+
   (cairo-image-surface.c:1180)
+   ==32723==   by 0x4063BE7: _cairo_surface_fill_rectangles
+   (cairo-surface.c:1883)

+ ==32723== by 0x4063E38: _cairo_surface_fill_region
+ (cairo-surface.c:1840)
+ ==32723== by 0x4067FDC: _clip_and_composite_trapezoids
+ (cairo-surface-fallback.c:625)
+ ==32723== by 0x40689C5: _cairo_surface_fallback_paint
+ (cairo-surface-fallback.c:835)
+ ==32723== by 0x4065731: _cairo_surface_paint (cairo-surface.c:1923)
+ ==32723== by 0x4044098: _cairo_gstate_paint (cairo-gstate.c:900)
+ ==32723== Uninitialised value was created by a heap allocation
+ ==32723== at 0x402732D: malloc (vg_replace_malloc.c:180)
+ ==32723== by 0x410099F: _pixman_image_allocate (pixman-image.c:100)
+ ==32723== by 0x41265B8: pixman_image_create_solid_fill
+ (pixman-solid-fill.c:75)
+ ==32723== by 0x4123CE1: pixman_image_fill_rectangles (pixman.c:314)
+ ==32723== by 0x40482B7: _cairo_image_surface_fill_rectangles
+
(cairo-image-surface.c:1180)
+ ==32723== by 0x4063BE7: _cairo_surface_fill_rectangles
+ (cairo-surface.c:1883)
+ ==32723== by 0x4063E38: _cairo_surface_fill_region
+ (cairo-surface.c:1840)
+ ==32723== by 0x4067FDC: _clip_and_composite_trapezoids
+ (cairo-surface-fallback.c:625)
+ ==32723== by 0x40689C5: _cairo_surface_fallback_paint
+ (cairo-surface-fallback.c:835)
+ ==32723== by 0x4065731: _cairo_surface_paint (cairo-surface.c:1923)
+ ==32723== by 0x4044098: _cairo_gstate_paint (cairo-gstate.c:900)
+ ==32723== by 0x403C10B: cairo_paint (cairo.c:2052)
+
+commit c7b84f8b043018368fade4ad13730cfcaaf5c8cc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 00:17:15 2009 -0400
+
+ Only apply the workaround if the clip region extends beyond the drawable.
+
+ This works because the X server always attempts to set a clip region
+ within the bounds of the drawable,
and it only fails at it when it is
+ computing the wrong translation and therefore needs the workaround.
+
+commit 6bd17f1e9861693262fa88bfeff5d3279b3f6e7d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 20 23:46:06 2009 -0400
+
+ Rework the workaround for bogus X server images.
+
+ Bug 22844 demonstrates that it is not sufficient to play tricks with
+ the clip regions to work around the bogus images from the X

+ server. The problem there is that if the operation hits the general
+ path and the destination has a different format than a8r8g8b8, the
+ destination pixels will be fetched into a temporary array. But because
+ those pixels would be outside the clip region, they would be fetched
+ as black. The previous workaround was relying on fast paths fetching
+ those pixels without checking the clip region.
+
+ In the new scheme we work around the problem at the
+ pixman_image_composite() level. If an image is determined
 to need a
+ work around, we translate both the bits pointer, the coordinates, and
+ the clip region, thus effectively undoing the X server's broken
+ computation.
+
+commit dfdb8509e2160a0db7d72e775dd348090e6fb968
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 20 22:45:47 2009 -0400
+
+ Add test case for bug 22844.
+
+commit 96340123eba05bff85433bb2db3a7ad80c8e57ba
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 21 01:24:43 2009 -0400
+
+ Fix typo in sse2_combine_over_pixbuf_0565()
+
+commit 767542cfb955ba22dad1259eff8a2fe16e7b8ba4
+Author: Adrian Bunk <adrian.bunk@movial.com>
+Date: Mon Jul 20 20:16:32 2009 -0400
+
+ Fix NEON build for older ARM CPUs
+
+ The pld instruction used in the NEON assembler code is only available
+ for ARMv5e and >= ARMv6.
+
+ Set -mcpu=cortex-a8 when compiling the source file (similar to what is
+ already done for the SIMD build).
+
+commit 184cd80aa46dd9d8bd023d3b70a345330b72d7e7
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 20 19:56:46 2009 -0400
+
+ Some formatting changes to pixman-arm-neon.c
+
+commit 5d2c527a2234d34b6269c561b08ebcaabf0b3ea3
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Jul 17 13:03:21 2009 +0300

+
+   ARM: Fixes for the inline assembly constraints in pixman_fill_neon
+
+   Some of the variables in the inline assembly arguments list are
+   actually modified by the assembly code, they are now marked
+   appropriately.
+
+commit c27a60f94cea7deb0afb21e734c892d475bfa06d
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Jul 17 12:54:44 2009 +0300
+
+   ARM: Workaround cs2007q3 compiler bug for NEON registers clobber list
+
+   128-bit registers "qX" are incorrectly handled in inline assembly
+   clobber list for codesourcery cs2007q3 gcc toolchain. Only the
+   first 64-bit half is saved and restored by gcc. Changing clobber
+   list to use
 only 64-bit register aliases can solve this problem.
+   For example, 128-bit register q0 is mapped to two 64-bit
+   registers d0 and d1, q1 is mapped to d2 and d3, etc.
+
+commit cb4a5fd18f20f49ed2721f04a886c2ffd1645d09
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Jul 17 00:11:14 2009 +0300
+
+   ARM: Commented out the rest of buggy NEON optimizations
+
+   These functions have problems with invalid memory accesses and often
+   crash X server
+
+commit 1aee6813ac45e6b206522623f58f1110a54186b1
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Jul 17 00:08:42 2009 +0300
+
+   ARM: Use Ian's variant of 'neon_composite_over_n_8_0565' function again
+
+   This patch effectively reverts the changes done by commit
+   8eeeca993252edc39da9c5c57545b81215fafc81 which was causing
+   severe stability issues, and restores old variant of
+   'neon_composite_over_n_8_0565' function, which used to work
+   correctly.
+
+commit 2356ba38fd0c0002be4484adb8ca51de32b2ff81
+Author:
 Miha Vrhovnik <miha.vrhovnik@cordia.si>
+Date: Mon Jul 20 19:30:59 2009 -0400
+
+   Update Makefile.win32 to make it work again.

+
+commit d4b22bd9935662912641abe5fd010d906c839405
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Jul 21 00:49:40 2009 +0200
+
+   Add a lot more sanity checks to region code
+
+   - Introduce a GOOD_RECT() macro that checks that a pixman_box_t is not
+   empty or degenerate an use it.
+   - Use GOOD_RECT() instead of magic if statements for funtions that take
+   x, y, width, height arguments
+   - Use GOOD_RECT() in _reset(). The checks in the previous code seemed to
+   allow an empty box, but then created a broken region from it.
+   - Add GOOD(region) check at the end of _translate()
+
+commit a3ad8bb5412f47776285bfc954d2275f075c8796
+Author: Benjamin Otte <otte@gnome.org>
+Date: Mon Jul 20 23:38:36 2009 +0200
+
+   Handle degenerate case in pixman_init_extents()
+
+   Create an
 empty region instead
+
+commit 854ec2ea4d0fc940e91c4ec1c419fb4e5635dc95
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 19 12:29:42 2009 -0400
+
+   Replace // comments with /* */ comments in various places
+
+commit 54cad29dc55fc0a670bf87abacd5f45e1289db54
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jul 18 17:59:43 2009 -0400
+
+   Align the stack in _pixman_implementation_create_sse2()
+
+   When compiled without optimization, GCC will place various temporaries
+   on the stack. Since Firefox sometimes causes the stack to be aligned
+   to four bytes, this causes movdqa to generate faults.
+
+commit 6aa26296f5831bddc9b3f3e3e2ea018fc0cefb75
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Sun Jul 19 18:20:53 2009 +0300
+
+   Check whether the linker understands the hwcap file before using it.
+
+   If we're trying to use the GNU linker on Solaris we shouldn't use
+   our solaris-hwcap.mapfile since it doesn't

grok the mapfile format.
+
+commit 934f4f4604ccf06db5d5aec07e58f0a0fbe7d283
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jul 17 22:40:41 2009 -0400
+
+   Move read and write functions to the bits_image_t struct.
+
+   Those fields were duplicated between image_common and bits_image_t
+   before.
+
+commit 737d00063e8b8aaeaab9aecd0fbe731e8ab3f6b3
+Author: Benjamin Otte <otte@gnome.org>
+Date: Fri Jul 17 16:01:59 2009 +0200
+
+   Handle degenerate case in pixman_init_rect()
+
+   Create an empty region in that case.
+
+commit e3a6df08a4bedfe82a8d3a7c1143e4db00a18d27
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jul 17 06:43:35 2009 -0400
+
+   Add back check for need_workaround that got removed during reindenting
+
+commit ecc54a7f02dbb6f57043e51173584f96c42fd2cc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 16 10:38:22 2009 -0400
+
+   Fix combine_src_ca() to fill out all of the destination line.
+
+commit
4df925bb28196974617804d680380522c048dedd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 16 09:34:22 2009 -0400
+
+   Change composite test to use a rainbow gradient as source.
+
+   Also make the destination a yellow patch. This makes the output a bit
+   more comparable to the image in the PDF specification.
+
+commit 4f369faffa7670e0e57c83c298359992223a998b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 16 06:23:25 2009 -0400
+
+   Various minor formatting changes
+
+commit 3d3baa3c5e76a4f851614a7794d92d15a56ac04e

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 16 06:06:17 2009 -0400
+
+   Change name of macro from RGB16_TO_ENTRY to RGB15_TO_ENTRY
+
+commit 12e829a8de1e45708b5dfeaa8137af6eeaf0f662
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Jul 16 15:33:43 2009 +0200
+
+   Clarify color burn code - no semantical changes
+
+   - Improve documentation to be equal to Proposed ISO32000
 Extension
+   - Simplify code in default case
+
+commit acf5738a82afb51a2284f5e61d9fac8dae7a47d5
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Jul 16 15:28:05 2009 +0200
+
+   Clarify color dodge code - no semantical changes
+
+   - Improve documentation to be equal to Proposed ISO32000 Extension
+   - Simplify code in default case
+
+commit 3dafe926b2405ba3404a41bb5b2842413308c8fa
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Jul 16 15:02:51 2009 +0200
+
+   Fix terms in comments describing the blend modes
+
+commit 90ac94b9cb3defa8bf174af8c7c9fc6c42e8762b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 14 18:49:43 2009 -0400
+
+   Add -fno-strict-aliasing
+
+commit 268561a3c674c5a4da945124b7b8f075b792a170
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 22:22:20 2009 -0400
+
+   Post-release version bump
+
+commit 466cf2b4452ec9bf4fa17cbf2186f5c472b66c26
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Mon Jul 13 22:00:52 2009 -0400
+
+   Pre-release version bump

+
+commit 83f6e2eacff826ef9dbdefb95fcb76fa1247ac4e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 19:58:04 2009 -0400
+
+   Reindent and rename identifiers in scaling-test.c
+
+commit 9a6ad34810421a30250ef331fb75b2a48ce9e564
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 02:37:19 2009 -0400
+
+   Reformat pixman.h
+
+commit 22f322fe246155d40465d4e14d65051a204f27f6
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 01:35:15 2009 -0400
+
+   Reindent and reformat pixman-private.h
+
+commit b4d196009881a4121b49996bdc87f7770bfa5c1b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 01:17:53 2009 -0400
+
+   Reindent and reformat pixman-combine.h.template
+
+commit f54c776e75a44a095304dd7374384a2a0c96d479
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 01:13:47 2009 -0400
+
+   Reindent
 and reformat pixman-combine.c.template
+
+commit d57b55bb2662837feafb4f9f88d10549164ee142
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 22:05:32 2009 -0400
+
+   Reindent and reformat pixman-vmx.c
+
+commit 01b604c606cd0842c8f4eccc41511a472e4450e9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 21:57:08 2009 -0400
+
+   Reformat and reindent pixman-utils.c
+
+commit 1d52ecbbe04c810d3f30e7915663b2cd21befcba
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 21:40:41 2009 -0400
+

+   Reformat and reindent pixman-trap.c
+
+commit c1178e49417bbea7f91b23f71c9ba957500da0ff
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 21:37:16 2009 -0400
+
+   Reformat pixman-timer.c
+
+commit 74774bad001504b4b2283689b6b55e21fa943dd8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 21:36:32 2009 -0400
+
+   Reformat and reindent pixman-sse2.c
+
+commit 7dc3593d8172e292b39a7d6cc7772fcf9a04bb1f
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 20:31:26 2009 -0400
+
+   Reformat and reindent pixman-solid-fill.c
+
+commit 3db9f5ff6e32c353cff640d3504eb54bd2a69ed3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 20:30:44 2009 -0400
+
+   Reformat and reindent pixman-region.c
+
+commit 317df68e94498b6a287eb736a6e5991e8b7d2d78
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:59:17 2009 -0400
+
+   Reindent and reformat pixman-radial-gradient.c
+
+commit 8820c81b50299f13791594fe6ddd01d536745231
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:37:45 2009 -0400
+
+   Reindent and reformat pixman-mmx.c
+
+commit c68283360d2e5917f15bddc0a14aa7a1c1b3852e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:24:31 2009 -0400
+
+   Reindent and reformat pixman-matrix.c
+
+commit 19397bc732b30a861416220974edca6404d2890b
+Author:

Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:19:13 2009 -0400
+
+   Reindent and reformat pixman-linear-gradient.c
+
+commit e8e08b35e7a8d221378e3a411efdfad74b1614e3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:15:17 2009 -0400
+
+   Reindent and reformat pixman-implementation.c
+
+commit 2c74165179b07f31b82402d74dc9fbaf8bf52191
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:13:17 2009 -0400
+
+   Reindent and reformat pixman-image.c
+
+commit 5aadc28e19328054b15c7ee88996c407a9a7d9b3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:10:53 2009 -0400
+
+   Reindent and reformat pixman-gradient-walker.c
+
+commit ac043ac2da643d872f519971a316f8bc6bdca0f8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:09:24 2009 -0400
+
+   Reindent and reformat pixman-general.c
+
+commit 7b3f5fdc571e8d6b4d64f950f2578d47b1056c86
+Author: Søren Sandmann Pedersen
 <sandmann@redhat.com>
+Date: Sun Jul 12 19:06:30 2009 -0400
+
+   Reindent and reformat pixman-fastpath.c
+
+commit c332e229bb274447b8b46c8f8ba7bce8cfaa21b2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 19:02:29 2009 -0400
+
+   Reindent and reformat pixman-edge.c
+
+commit 4ba9a44e8f4098fc61bfb62650c521b2e37cf9cb
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 18:59:10 2009 -0400
+
+   Reindent and reformat pixman-cpu.c
+

+commit e01fc6bba7f90c80e86b206f28efa3f1f94a083b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 18:55:45 2009 -0400
+
+   Reindent and reformat pixman-conical-gradient.c
+
+commit 2871add52ece8bc4a02c0f4fae98912a0f4a830c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 18:54:31 2009 -0400
+
+   Reindent and reformat pixman.c
+
+commit 0e6e08d380a16f8804706270e74f66960a681167
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul
 12 18:52:33 2009 -0400
+
+   Reindent and reformat pixman-bits-image.c
+
+commit 89eda86549e8cf938556b1a238960f2fbb7b911c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 18:45:56 2009 -0400
+
+   Reindent and reformat pixman-arm-simd.c
+
+commit 9a26a60a233955aadab65fde5bf31fc0199663ea
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 18:42:31 2009 -0400
+
+   Reindent and reformat pixman-arm-neon.c
+
+commit 0af8ef742c6e1aa150b591bc7cdacb8d2293f7af
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 12 18:04:21 2009 -0400
+
+   Reindent and reformat pixman-access.c.
+
+commit be3a1b04ae9ef52f60fa1c6423d743b628aa57ca
+Author: Benjamin Otte <otte@gnome.org>
+Date: Mon Jul 13 18:02:09 2009 -0400
+
+   Fix burn and dodge operators to match acroread output
+
+commit 7dc2c48bcab7404ace9b41959e2233d0025801b3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 05:58:43 2009 -0400
+
+   Return

immediately if the operator is CONJOINT_DST or DISJOINT_DST
+
+   These are noops just like plain DST is.
+
+commit bb383def00b3d30d991295274b58a841a7162620
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 05:39:40 2009 -0400
+
+   Fix bits_image_fetch_{un}transformed() for 64 bit buffers.
+
+   The buffer pointer has to advance twice as far as in the 32 bit case.
+
+commit c88b75d24c6fc618d638373dce5e5f0281de1f40
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 04:43:37 2009 -0400
+
+   Make sure we get all 64 bits in bits_image_fetch_solid_64()
+
+   Previously we would only store the first 32 bits.
+
+commit f73ecb3f0ff516e4411de9a2738b8851e679a163
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 13 04:04:59 2009 -0400
+
+   Fix typo in bits_image_fetch_solid_64().
+
+   Found by blitters-test.
+
+commit 03c6b294a4517f5dfbc87504fceb3a88efef6a17
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Sun Jul 12 03:55:23 2009 -0400
+
+   Only destroy the regions when pixman_compute_composite_region() returns TRUE
+
+commit 2af5f64e938f0d3b81f3f014441cdff650fe5457
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jul 11 03:25:25 2009 -0400
+
+   Move workaround logic to pixman-bits-image.c.
+
+   Instead of computing whether a workaround is needed on every call to
+   _pixman_run_fast_path(), just cache this information in the image.
+
+   Also, when workarounds are needed, clip against the source geometry to
+   prevent out of bound reads.
+
+commit 5088ca8d97c9c918746c3e261a31b6edab6c964b

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jul 10 18:18:00 2009 -0400
+
+   Only apply the workaround to source images when out_of_bounds_workaround is set.
+
+   Pointed out by Siarhei Siamashka.
+
+commit 51418786e4cba2e8fbb44052fbed2f107244b733
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:
  Fri Jul 10 13:50:15 2009 -0400
+
+   Return nonzero code from scaling-test program in case of failure.
+
+   This can potentially help in tests automation.
+
+commit 71862fe84e5eeb0b178ed3a7dec8430d506b8515
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Fri Jul 10 11:49:53 2009 +0300
+
+   Fix scaling-test to work on big endian systems
+
+commit 0f8c5d2fd447d2d9a0350c33715f140ab0dac452
+Author: Michel Dänzer <daenzer@vmware.com>
+Date: Fri Jul 10 11:28:11 2009 +0200
+
+   Convert some leftover instances of Alpha() in pixman-vmx.c.
+
+   They were probably missed due to the space before the parens.
+
+commit 0fce356762864572ae126733f657600fbb9116ce
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 9 01:35:11 2009 -0400
+
+   Add workarounds for X servers doing out-of-bounds accesses.
+
+   Old X servers rely on out-of-bounds accesses when they are asked
+   to composite with a window as the source. They create a pixman image
+
   pointing to some bogus position in memory, but then they set a clip
+   region to the position where the actual bits are.
+
+   Due to a bug in old versions of pixman, where it would not clip
+   against the image bounds when a clip region was set, this would
+   actually work.
+
+   The workaround added by this commit is to try and detect whether a
+   source drawable is actually a window without a client clip set. Such a

+ window will generally have a clip region that corresponds exactly to
+ the hierarchy clip in the server, whereas pixmaps will have a clip
+ region that is an exact match to the drawable.
+
+ When we detect such a window, we allow a fast path to run that would
+ normally be rejected due to the sources not completely subsuming the
+ composite region.
+
+ Fixed X servers should call the new function
+ pixman_disable_out_of_bounds_workaround() to disable the workaround.
+
+ This was reported in bug 22484.
+
+commit
61254a3c09497214a9c7ca89e275286533a3be2e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jul 9 23:17:56 2009 -0400
+
+ Add a BUILT_SOURCES with pixman-combine{32,64}.{c.h}
+
+ Bug 22681.
+
+commit 34ec50a4761cab50c6216b08ef5cfb36bf94209e
+Author: Adrian Bunk <adrian.bunk@movial.com>
+Date: Fri Jul 10 00:11:15 2009 +0300
+
+ Fix the NEON build after "Convert CamelCase names to underscore_names."
+
+ This patch fixes the following build error caused
+ by commit a98b71eff4041df58c9dcc2b1e25cefa38f364ff
+ (Convert CamelCase names to underscore_names.):
+
+ <-- snip -->
+
+ ...
+ pixman-arm-neon.c: In function 'neon_composite_over_n_8_0565':
+ pixman-arm-neon.c:1784: error: 'x_dst' undeclared (first use in this function)
+ pixman-arm-neon.c:1784: error: (Each undeclared identifier is reported only once
+ pixman-arm-neon.c:1784: error: for each function it appears in.)
+
pixman-arm-neon.c:1785: error: 'p_dst' undeclared (first use in this function)
+ pixman-arm-neon.c: In function 'neon_composite_over_n_0565':
+ pixman-arm-neon.c:1937: error: 'x_dst' undeclared (first use in this function)
+ pixman-arm-neon.c:1938: error: 'p_dst' undeclared (first use in this function)
+ pixman-arm-neon.c: In function 'neon_composite_over_8888_0565':
+ pixman-arm-neon.c:2074: error: 'x_dst' undeclared (first use in this function)
+ pixman-arm-neon.c:2075: error: 'p_dst' undeclared (first use in this function)
+ make[3]: *** [libpixman_arm_neon_la-pixman-arm-neon.lo] Error 1

```
+       ...
+
+       <--  snip  -->
+
+commit 6b34482870fd53a9285f795f47656ac73fd706b0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Thu Jul 9 04:04:00 2009 -0400
+
+    Update the CRC value in scaling-test.c.
+
+    The changes in pixman behavior justifying this are:
+
+    - New clipping rules
+
+    - Bug fixes
 in region code. In particular, when
+      pixman_region_init_rects() is called on these two boxes:
+
+     { 2, 6, 7, 6 }
+     { 4, 1, 6, 7 }
+
+      it now ignores the first one, which is empty and produces
+
+     { 4, 1, 6, 7 }
+
+      Previously, it would produce:
+
+     { 2, 1, 7, 7 }
+
+      for some reason.
+
+commit 4c60ed5ec662e2d7088a7800dd7c71d3926c42a4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Thu Jul 9 04:00:19 2009 -0400
+
+    Fix bug in pixman-region.c where empty regions would not be properly initialized.
+
+    Also add a couple more tests to region-test.c.
+
+commit bcf01c21d704717264011182e71cfaaf6922a437
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Thu Jul 9 01:47:19 2009 -0400
+
+    Fix a couple of problems with the tests when HAVE_GTK is not defined.
+
+    - Make sure the non-gtk+ test programs are added to noinst_PROGRAMS
+      when HAVE_GTK is not set.
+
```

```
+    - Don't include
 glib.h in oob-test.c
+
+commit 0db0430d1d410855863e669f0de9e8b5d26db7fd
+Merge: 31a40a1 b3cf3f0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Wed Jul 8 18:59:15 2009 -0400
+
+    Merge branch 'naming'
+
+commit 31a40a172591ab373add9dd41a52881bea9dc6f2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Wed Jul 8 18:41:41 2009 -0400
+
+    Eliminate boxes with x1 > x2 or y1 > y2 in pixman_region_init_rects().
+
+commit 706e6594310a490956d21e939c23de2b5dbe1561
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Wed Jul 8 18:39:43 2009 -0400
+
+    Add a box with y2 < y1 in region-test.c
+
+commit b3cf3f0c2be462cd61e63e07655d1b45e55f4a7b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jul 6 20:33:05 2009 -0400
+
+    Fix up some overeager search-and-replace renamings
+
+commit c2e331693d858c01b69135342c139546780b7021
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jul 6 12:48:59 2009 -0400
+
+    Rename num_rects
 back to numRects.
+
+    The name numRects is public API and can't be changed.
+
+commit 8261b4d57cfdf77d7fdd4e4c0fc805ba48f7e0a0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 02:12:21 2009 -0400
+
+    Rename combine_*_c to combine_*_ca
+
+    s/combine_(.+)_c([^a-z0-9A-Z])/combine_$1_ca$2/g;
+
+commit 3c03990ba214bff000d3494587353b94f9432453
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 01:42:28 2009 -0400
```

```
+
+    Various sse2 renamings
+
+commit 9d0be1d4c81153ef2407518f605bc55380485955
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 01:38:10 2009 -0400
+
+    s/sse2combine/sse2_combine/g
+
+commit a98b71eff4041df58c9dcc2b1e25cefa38f364ff
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 01:35:14 2009 -0400
+
+    Convert CamelCase names to underscore_names.
+
+    s/sizeRI/size_ri/g;
+    s/numRI/num_ri/g;
+    s/RepeatNone/REPEAT_NONE/g;
+    s/fbOver/over/g;
+
    s/fbIn/in/g;
+    s/iSrc/src_image/g;
+    s/iMask/mask_image/g;
+    s/iDst/dest_image/g;
+    s/SaDa/Sa.Da/g;
+    s/FbMaskBits/MASK_BITS/g;
+    s/RenderSamplesX/RENDER_SAMPLES_X/g;
+    s/MMXData/mmx_data_t/g;
+    s/RegionInfo/region_info_t/g;
+
+    s/([^0x])([a-z])([A-Z])/$1$2_\l$3/g;
+    s/([^0x])([A-Z])([A-Z])([a-z])/$1$2_\l$3$4/g;
+    s/([^0x])([A-Z])([a-z]+)_([a-z])/$1\l$2$3_$4/g;
+    s/([a-z])_([A-Z])/$1_\l$2/g;
+
+    s/su_sE/SuSE/g;
+    s/X_Free86/XFree86/g;
+    s/X_free86/XFree86/g;
+
+    s/_ULL/ULL/g;
+    s/_uLL/ULL/g;
+
+    s/U_nc/UNc/g;
+    s/combine ##/combine_ ##/g;
+    s/## U/## _u/g;
+    s/## C/## _c/g;
+    s/UNc_aDD/UNc_ADD/g;
+
```

```
+    s/BLEND_MODE \((.+)\)/BLEND_MODE (\l$1)/g;
+    s/blend_(.+)/blend_\l$1/g;
+
+    s/AN_ds/ANDs/g;
+    s/O_rs/ORs/g;
+    s/over565/over_565/g;
+    s/8pix/8_pix/g;
+    s/Over565/over_565/g;
+    s/inU/in_u/g;
+    s/inPart/in_part/g;
+    s/inC/in_c/g;
+    s/inreverse/in_reverse/g;
+    s/get_exception_code/GetExceptionCode/g;
     # GetExceptionCode is WinCE API
+    s/CP_us/CPUs/g;
+    s/authentic_aMD/AuthenticAMD/g;
+    s/op_sR_cx_mAS_kx_dST/op_src_mask_dest/g;
+    s/no_VERBOSE/noVERBOSE/g;
+    s/mc_cormack/McCormack/g;
+    s/r1band/r1_band/g;
+    s/r2band/r2_band/g;
+    s/as GOOD things/as good things/g;
+    s/brokendata/broken_data/g;
+    s/X_render/XRender/g;
+    s/__open_bSD__/__OpenBSD__/g;
+    s/^Quick/quick/g;
+    s/NextRect/next_rect/g;
+    s/RectIn/rect_in/g;
+    s/pboxout/pbox_out/g;
+    s/F_sorted/FSorted/g;
+    s/usse2/u_sse2/g;
+    s/csse2/c_sse2/g;
+    s/cPixelsse2/c_pixel_sse2/g;
+    s/Mask565/mask_565/g;
+    s/565fix_rB/565_fix_rb/g;
+    s/565fix_g/565_fix_g/g;
+    s/565r/565_r/g;
+    s/565g/565_g/g;
+    s/565b/565_b/g;
+    s/uPixelsse2/u_pixel_sse2/g;
+    s/Mask00ff/mask_00ff/g;
+    s/Mask0080/mask_0080/g;
+    s/Mask0101/mask_0101/g;
+    s/Maskffff/mask_ffff/g;
+    s/Maskff000000/mask_ff000000/g;
+    s/load128Aligned/load_128_aligned/g;
+
```

```
   s/load128Unaligned/load_128_unaligned/g;
+    s/save128Aligned/save_128_aligned/g;
+    s/save128Unaligned/save_128_unaligned/g;
+    s/fillsse2/fill_sse2/g;
+    s/unpack565/unpack_565/g;
+    s/pack565/pack_565/g;
+    s/bltsse2/blt_sse2/g;
+    s/x565Unpack/x565_unpack/g;
+    s/r1End/r1_end/g;
+    s/r2End/r2_end/g;
+    s/argb8Pixels/argb8_pixels/g;
+
+commit 437ab049872063c78ee934766596dc6859749a3d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 01:34:07 2009 -0400
+
+    Remove reference to 8888_RevNP
+
+commit 55e63bd0f09290cf1165030edbb4e92efb09ee6e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 00:55:45 2009 -0400
+
+    Remove reference to 8888RevNP
+
+commit 01994a59ca642f4e5ce126d3ad01e864d3daa0bb
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 00:41:53 2009 -0400
+
+    NoFeatures => NO_FEATURES
+
+commit 309d358ea673b5d4c163670c3c449fb855df7775
+Author: Søren Sandmann Pedersen
 <sandmann@redhat.com>
+Date:   Sun Jul 5 00:31:07 2009 -0400
+
+    s/FbScrRight/SCREEN_SHIFT_RIGHT/g
+
+commit 71fe4e3e5c64f177a8756e51eddc190b3a08ea40
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 00:26:30 2009 -0400
+
+    CPUFeatures => cpu_features
+
+commit 255ddbe5358b0ed4a7a01ef0ab127833dba94b02
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jul 5 00:19:18 2009 -0400
+
+    Rename FbGet8 to GET8
```

+
+commit 446276c36fd336531745fc1427c4af2ccdbe9875
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 5 00:11:57 2009 -0400
+
+   Rename RBmask/Gmask => rb_mask/g_mask in pixman-arm-neon.c
+
+commit 412b4b50f7bd8ac29e4c9b20e613154c1b5e371a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 5 00:06:59 2009 -0400
+
+   Use ALPHA_8 in pixman-image.c instead of Alpha
+
+commit 887383b0adab89bcc131a9a28c4d60af9e4773d1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 5 00:05:42
 2009 -0400
+
+   Uppercase a few more macros in pixman-combine.c.template
+
+commit 4153361c52f332bce9e9cc32adf1e01064014e15
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 5 00:02:45 2009 -0400
+
+   Rename macros for non-separable blend modes
+
+   Lum => LUM
+   Sat => SAT
+   Min => CH_MIN
+   Max => CH_MAX
+
+commit 68405c326db4cd087bdb6290ae42953a98b81838
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jul 4 23:45:01 2009 -0400
+
+   Rename some macros in pixman-combine.c.template
+
+   s/Combine([AB])([a-zA-Z]+)([^a-zA-Z])/COMBINE_$1_\U$2$3/g;
+   s/CombineA/COMBINE_A/g;
+   s/CombineB/COMBINE_B/g;
+   s/CombineXor/COMBINE_XOR/g;
+   s/CombineClear/COMBINE_CLEAR/g;
+
+commit 835520b28ff1412bd9b00460a107e72c9ea21e35
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jul 4 23:24:27 2009 -0400
+
+   Rename U{no}mask => U_{no_}mask in pixman-vmx.c

+
+commit f9bdd1a82c7629a360109bdf4519c73ba5a99225
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jul 4 23:13:55 2009 -0400
+
+   Change name fbComposeGetStart to PIXMAN_IMAGE_GET_LINE.
+
+commit e064aa761831296c8570e0fdfaa0c3585c4a3871
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jul 4 23:12:18 2009 -0400
+
+   Rename fbCombine* to combine*
+
+   s/fbCombine/combine/g;
+
+commit f61855e186519a490b5d013d2de67dcc8da7a0ac
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 12:51:28 2009 -0400
+
+   Fix overeager search and replace
+
+commit 1de32ae2ef8044b349f3ec87ae339fdcedeb83ef
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 12:07:56 2009 -0400
+
+   Uppercase some more macro names
+
+commit 47296209dae2e3d33426532a3e896e06373fc088
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 11:40:21 2009 -0400
+
+   Consolidate channel macros in pixman-combine.h
+
+   There are now RED_8/RED_16 etc. macros instead
 of the old Red/Green/Blue.
+
+commit 2f3e3d62f7727a652090ea003c98218f3b550818
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 11:17:28 2009 -0400
+
+   Change some macro names to be all uppercase
+
+commit 8339a4abc4edcaee6fafbde1a147ba7fcaa9c108
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 09:29:32 2009 -0400
+
+   Change names of the FbByte* macros to be more descriptive.

+
+   But also more cryptic unfortunately. For example FbByteMul() becomes
+   UN8x4_MUL_UN8() to indicate that it multiplies 4 UN8 numbers with one
+   UN8 number.
+
+commit e7f162a5a81221ca6abca79a9a77924d39bf4e16
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 08:42:19 2009 -0400
+
+   Clarify a couple of comments
+
+commit b02c33e7da3eb733ca4ada66a6c35b293a191144
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 08:30:36 2009 -0400
+
+   Change name of macros that operate on normalized integers.
+

+   For example IntMul becomes MUL_UN8 to indicate that it multiplies two
+   unsigned normalized 8 bit integers.
+
+commit d4a366193b12cf241980a621a15ec0ee67e8f6bb
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 08:10:20 2009 -0400
+
+   Fix names in the trap rasterizer.
+
+   s/Shift4/SHIFT_4/g;
+   s/Get4/GET_4/g;
+   s/Put4/PUT_4/g;
+   s/DefineAlpha/DEFINE_ALPHA/g;
+   s/AddAlpha/ADD_ALPHA/g;
+   s/StepAlpha/STEP_ALPHA/g;
+   s/add_saturate_8/ADD_SATURATE_8/g;
+   s/RenderEdgeStepSmall/RENDER_EDGE_STEP_SMALL/g;
+   s/RenderEdgeStepBig/RENDER_EDGE_STEP_BIG/g;
+   s/fbRasterizeEdges/b00_re/g;
+   s/rasterizeEdges/RASTERIZE_EDGES/g;
+   s/b00_re/rasterize_edges_/g;
+
+commit bcdf0861be346a8a4662376f4305474da9236163
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 29 08:02:45 2009 -0400
+
+   Rename QuadwordCopy_neon to neon_quadword_copy
+
+   s/QuadwordCopy_neon/neon_quadword_copy/g;
+

```
+commit
 a08548bd5275c69c1e7a7fd894a844ad6ad59638
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 08:00:56 2009 -0400
+
+    Fix up the names in pixman_compute_composite_region()
+
+        s/miClipPictureSrc/clip_source_image/g;
+        s/miClipPictureReg/clip_general_image/g;
+
+commit e27b2a1fcc890d3abf272cc27fa2c0a2e8d7ab09
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 07:59:10 2009 -0400
+
+    Fix some more pFoo names
+
+    s/([^a-z])pReg/$1region/g;
+    s/([^a-z])pY/$1y_line/g;
+    s/([^a-z])pU/$1u_line/g;
+    s/([^a-z])pV/$1v_line/g;
+    s/([^a-z])p([A-Z])/$1\l$2/g;
+
+commit 006f21b02b23e1865c0e35d0f9b97af63f52a469
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 07:54:10 2009 -0400
+
+    Fix the names of some common parameters
+
+        s/xDst/dest_x/g;
+        s/yDst/dest_y/g;
+        s/xMask/mask_x/g;
+        s/yMask/mask_y/g;
+        s/xSrc/src_x/g;
+        s/ySrc/src_y/g;
+
+commit
 d2a4281376786fc7f31f7367807c7caa8a99d414
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 07:46:11 2009 -0400
+
+    Various simple renamings
+
+        s/CvtR8G8B8toY15/CONVERT_RGB24_TO_Y15/g;
+        s/cvt8888to0565/CONVERT_8888_TO_0565/g;
+        s/cvt0565to0888/CONVERT_0565_TO_0888/g;
+        s/miIndexToEnt15/RGB16_TO_ENTRY/g;
+        s/miIndexToEnt24/RGB24_TO_ENTRY/g;
+        s/miIndexToEntY24/RGB24_TO_ENTRY_Y/g;
```

```
+       s/miCvtR8G8B8to15/CONVERT_RGB24_TO_RGB15/g;
+       s/is_same/IS_SAME/g;
+       s/is_zero/IS_ZERO/g;
+       s/is_int([ (])/IS_INT$1/g;
+       s/is_one/IS_ONE/g;
+       s/is_unit/IS_UNIT/g;
+       s/Fetch4/FETCH_4/g;
+       s/Store4/STORE_4/g;
+       s/Fetch8/FETCH_8/g;
+       s/Store8/STORE_8/g;
+       s/Fetch24/fetch_24/g;
+       s/Store24/store_24/g;
+       s/_64_generic/64_generic/g;
+       s/64_generic/_generic_64/g;
+       s/32_generic_lossy/_generic_lossy_32/g;
+       s/PdfSeparableBlendMode/PDF_SEPARABLE_BLEND_MODE/g;
+
      s/PdfNonSeparableBlendMode/PDF_NON_SEPARABLE_BLEND_MODE/g;
+       s/([^_])HSL/$1Hsl/g;
+       s/Blend/blend_/g;
+       s/FbScrLeft/SCREEN_SHIFT_LEFT/g;
+       s/FbScrRigth/SCREEN_SHIFT_RIGHT/g;
+       s/FbLeftMask/LEFT_MASK/g;
+       s/FbRightMask/RIGHT_MASK/g;
+       s/Splita/SPLIT_A/g;
+       s/Split/SPLIT/g;
+       s/MMX_Extensions/MMX_EXTENSIONS/g;
+
+commit 1c5774bf6d39e7b349c03866c96811ee1754c9d7
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 07:35:40 2009 -0400
+
+    Get rid of pFoo names.
+
+       s/([^o])pSrc/$1src_image/g;
+       s/([^o])pDst/$1dst_image/g;
+       s/([^o])pMask/$1mask_image/g;
+       s/pRegion/region/g;
+       s/pNextRect/next_rect/g;
+
+commit e3489730c317061a2cd888b927d36bda0590a3f2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 07:30:47 2009 -0400
+
+    Change the name of some routines that were simply misnamed.
+
+
```

```
   s/Src_pixbuf/_over_pixbuf/g;
+       s/Src_x888_n/_over_x888_n/g;
+       s/CompositeSrc_8888_8888/composite_over_8888_8888/g;
+       s/CompositeSrc_8888_0565/composite_over_8888_0565/g;
+       s/CompositeSrc_8888_8_8888/composite_over_8888_n_8888/g;
+
+commit 90cac1115551c0fd70ace419179bcf2a30d6b1c2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jun 28 21:06:01 2009 -0400
+
+    Fix up names of compositing functions
+
+       s/SrcAdd/Add/g;
+       s/SolidMaskSrc/Src/g;
+       s/SolidMaskIn/In/g;
+       s/SolidMask/Over/g;
+       s/Solid_n/Over_n/g;
+       s/SrcIn/In/g;
+
+       s/(fb)(Composite.*)sse2/sse2_$2/g;
+       s/(fb)(Composite.*)mmx/mmx_$2/g;
+       s/(fb)(Composite.*)neon/neon_$2/g;
+       s/(fb)(Composite.*)arm/arm_$2/g;
+       s/(fb)(Composite.*)vmx/vmx_$2/g;
+       s/(fb)(Composite.*)/fast_$2/g;
+
+       s/b8g8r8x8/f00bar/g;
+       s/8888C/8888_ca/g;
+       s/0565C/0565_ca/g;
+       s/8888RevNPx/pixbuf_x_/g;
+
      s/8x0/8_x_0/g;
+       s/00x8/00_x_8/g;
+       s/8x8/8_x_8/g;
+       s/8x8/8_x_8/g;
+       s/nx8/n_x_8/g;
+       s/24x16/24_x_16/g;
+       s/16x16/16_x_16/g;
+       s/8xx8/8_x_x8/g;
+       s/8xn/8_x_n/g;
+       s/nx0/n_x_0/g;
+       s/_x_/_/g;
+       s/f00bar/b8g8r8x8/;
+
+       # Fix up NEON type names
+       s/uint8_8/uint8x8/g;
+
+commit e987661667ac5c650af1c3a2ba173558ff287e06
```

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 28 20:45:58 2009 -0400
+
+   Rename fetchers.
+
+   s/fbFetchPixel/fetch_pixels/g;
+   s/fbFetch/fetch_scanline/g;
+   s/fbStore/store_scanline/g;
+
+commit 2d32d91e5d89bb04fcbaffb23244a9f023d39239
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jul 8 00:38:28 2009 -0400
+
+   Use postfix decrement, not prefix, in region-test.c
+
+commit 4e41905bacbf533740e999ba79e0620f358c0597
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jul 8 00:08:49 2009
 -0400
+
+   Eliminate empty rectangles in pixman_region_init_rects().
+
+   Otherwise they show up in the validated regions.
+
+commit 967ff0bdc7f46806b7a6d16332ad39cf2c1f01c1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jul 7 22:55:32 2009 -0400
+
+   Add an initialization with an empty rectangle to region-test.c
+
+   This should produce a valid region without empty rectangles in
+   it. Currently it doesn't.
+
+commit 40fcc14d1cf8cb6b6c71f27b0a3d3ccc9a845949
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jul 6 20:37:14 2009 -0400
+
+   Expand comment in miClipPictureSrc() to explain why a client clip is required.
+
+commit eba3be7b7a2b9a8df235af6255b9d8c70d2b8c93
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jul 5 00:35:31 2009 -0400
+
+   Fix forgotten use BITMAP_BIT_ORDER to be ifndef WORDS_BIG_ENDIAN
+
+commit 06f5b51fee35727a823bd86294654178cbfac629
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:

```
  Sat Jul 4 22:49:16 2009 -0400
+
+    Return TRUE for the two new formats in pixman_format_supported_source().
+
+commit b0f220b7f236b5dea30ddc5dec51b73c11120e10
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 11:21:33 2009 -0400
+
+    Inlucde pixman-private.h in pixman-region.c
+
+    Delete some duplicated macros.
+
+commit f6ef071e2805bcf52473f06cd7171097b4afd926
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Mon Jun 29 11:07:20 2009 -0400
+
+    Rename OptimizedOperatorInfo to optimized_operator_info_t
+
+commit 7b7e4b23cab361b444d0c69a1b9c1678d3c5df2b
+Author: Ben Skeggs <bskeggs@redhat.com>
+Date:   Wed Jul 1 10:18:29 2009 +1000
+
+    Add accessor functions for PIXMAN_x2r10g10b10 and PIXMAN_a2r10g10b10
+
+commit 968f720d0e8b97bbeb2db9edb75ec524d697e1d6
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date:   Wed Jul 1 16:29:48 2009 +0300
+
+    Avoid overrunning scanlines in NEON blitters.
+
+commit 863f9e9b7599b89c9dd42dd9c7913c2513384761
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Sun Jun 28 18:54:32 2009 -0400
+
+    Change comma to semicolon in pixman-combine.c.template
+
+commit 10aa32315529eaff848b8348cad47b2673f853cf
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date:   Sat Jun 27 11:56:38 2009 +0300
+
+    Really fix ARM build.
+
+    Commit 9d3f71d726c8b959b64c3e6b43ca4d3ccb320c32 broke the build
+    on ARM architectures by just removing custom include files and
+    not providing "pixman-private.h" as a replacement.
+
+commit 996e59f7f81864f7935d6dd58d8efd5a5ea265ea
```

+Author: Guillaume Letellier <glet.n800@googlemail.com>
+Date: Fri Jun 26 19:02:08 2009 -0400
+
+   Fix ARM build.
+
+   Commit 6e20c2574354d1cb071a1201ff166cb5e92c00d2 broke the build on ARM
+   architectures by not updating the use of fbComposeGetSolid()
+   correctly.
+
+commit e8addcc69a36375d1330749e00854d9651c8f8d0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Fri Jun 26 18:58:23 2009 -0400
+
+   Change checks for srca == 0 to src == 0
+
+   It is not generally correct to bail out just because the source alpha
+   is 0. The color channels still mig not be and in that case the correct
+   result is:
+
+   s + (1 - srca) * d = s + d
+
+   which is not generally 0.
+
+commit 9a7ce32ef5cf70a17d83154cfd1b96aa54ce9232
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 25 12:42:03 2009 -0400
+
+   Make arm compositing functions static
+
+commit 9d3f71d726c8b959b64c3e6b43ca4d3ccb320c32
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 25 10:20:44 2009 -0400
+
+   Delete ARM header files
+
+commit 9837465fd9a5d4e7280d4c79c41d2d9a9c8f71c0
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Jun 24 01:30:34 2009 +0300
+
+   Use -mcpu instead of -march for ARM SIMD runtime autodetection
+
+   Option -mcpu has higher priority than -march with the current
 versions
+   of gcc and that's why it is better to use. There is no particular
+   reason why 'arm1136j-s' is used in this patch, it could be any armv6
+   compatible core.
+

+commit 6b8251039a905114e4b0776c3f8f58cb0678a532
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 20:08:50 2009 -0400
+
+   Add test cases to oob-test using PIXMAN_{a,x}2b10g10r10
+
+commit f94053cd9b1dc8db6c924c8cf50d75ccc1898cce
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 13:12:07 2009 -0400
+
+   Post-release version bump
+
+commit f6faa06ef85fc4c9ff38dbc9243c060b4cdacc1a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 12:51:40 2009 -0400
+
+   Pre-release version bump
+
+commit 084392fbd72e55f87e9bc37dd02384fc145f7d36
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 05:44:18 2009 -0400
+
+   Delete scanFetchProc type. Use fetch_scanline_t instead.
+
+   fetch_scanline_t now takes a pixman_image_t
 argument instead of an
+   bits_image_t, so there is also a bunch of updates in pixman-access.c
+
+commit 588b42dc1e8fe252bde1eb0905bb9fac806e8ca3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 21:28:28 2009 -0400
+
+   Constify the mask argument to scanline fetchers.
+
+commit 5cfdee917d3cac38b103f7453c5a8a0047b95337
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 21:22:06 2009 -0400
+
+   Add a mask and mask_bits argument to the raw scanline fetchers.
+
+commit d3bebaf731b4e1714653b50a4a861171f497b42f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 21:10:52 2009 -0400
+
+   Rename fetchProc32 to fetch_scanline_t and fetch_pixels_32_t to fetch_pixels_t
+
+commit 6af8672c69b770ce229bd1d156f1fe70d74800f9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Tue Jun 23 20:58:39 2009 -0400
+
+   Get rid of the 64 bit fetcher types.
+
+   It's simpler to just declare everything
 as 32 bit fetchers and do the
+   conversion in the few functions that actually need to know the size of
+   the pixel type.
+
+commit 70cba5cfa8a5d702c32170c511a7318766e45731
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 20:38:58 2009 -0400
+
+   Consolidate the three scanline store types into one.
+
+   The 64 bit storers do their own type conversion.
+
+commit 973ebf1631de695483fcb4b5e4c2b27e037ca3bf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 19:03:11 2009 -0400
+
+   Get rid of remaining scanFetchProc casts
+
+commit 24303475c26dada40474f5972b1abee2315ba8f9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 19:02:10 2009 -0400
+
+   Get rid of scanFetchProc casts in pixman-radial-gradient.c
+
+commit 99780d3b2264f6e2bb210d3fdc1237c8fbfc3f25
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 19:00:52 2009 -0400
+
+   Get rid of scanFetchProc casts in pixman-conical-gradient.c
+
+commit
 2d2d3a2625fcc1151f61d0dc1a6ff268d7491be8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 18:58:39 2009 -0400
+
+   Get rid of casts to scanFetchProc in pixman-bits-image.c
+
+   Instead just declare the functions with the required type and do any
+   type conversions in the function itself.
+
+commit 4597ad88d9ade51b5a0b4eb87503e1278b29ef56
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 18:44:01 2009 -0400

+
+   Fix bug where 64 bit pixel were fetched as 32 bit ones.
+
+commit aa6adb646a2c61062d867cece2b0669f658abb39
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 18:41:35 2009 -0400
+
+   Delete FbIntMult and FbIntDiv macros, and move FbIntAdd to pixman-combine.h
+
+commit 53ada03119d44984775877f2a2fee5ce442ac1c8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 12:10:48 2009 -0400
+
+   Add a table to oob-test so that it can test more than one setup.
+
+commit
 895a8da63370635b05ffb91d3d670c6627d8b2ab
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 11:28:03 2009 -0400
+
+   Fix offset bug in pixman_run_fast_path().
+
+   Fast paths should only run when the source images complete cover the
+   composite region, because otherwise they would be required to sample
+   the border, and fast paths generally don't know how to do that.
+
+   The check for this did not work right because it didn't take the
+   offset generated by the composite coordinates into account. This
+   commits fixes that by adding (x, y) coordinates to image cover
+   indicating the new position of the source in destination coordinates.
+
+   Based on this we now compare against the region extents which are
+   already in destination coordinates.
+
+commit fd90429a32927d8aa516a3d26cc309ca7043e4d3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 11:23:04 2009 -0400
+
+   Fix typo in oob-test.c
+
+commit
 bed9c378ff9d01c8e646241dd96a43e2eb870cca
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 10:37:07 2009 -0400
+
+   Add test case for out-of-bounds memory access.
+
+commit b6c97ae2c934ca5adade10303d6faa6e827f826d

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 24 09:04:54 2009 -0400
+
+   Fix comment in pixman-utils to have the right sense.
+
+commit c0047fbfd54d519698a0991111f2440dc8e081b9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 16:55:53 2009 -0400
+
+   Subtract x_off/y_off before conversion to integer.
+
+   They are fixed-point values, not integers.
+
+   Bug 22437, reported by Michel Dänzer.
+
+commit 905856f43d38b5f2932d8b459e805e1c86b7a2f3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 16:37:35 2009 -0400
+
+   Add convolution-test.c program
+
+commit 79d397003f56238aa680b0670e1e7d7ba1594dda
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Tue Jun 23 16:23:26 2009 -0400
+
+   Delete leftover use of PIXMAN_OP_FLASH_SUBTRACT
+
+commit ebc4a4df9c92934891d202ae2603216a046ec939
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 14:55:36 2009 -0400
+
+   Remove support for component alpha with HSL blend modes.
+
+   It isn't clear that component alpha makes sense with HSL blend modes.
+
+commit ca4ff13027b76d0ac7398f159a731f7606b7bd51
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 14:39:49 2009 -0400
+
+   Remove FLASH_SUBTRACT blend mode.
+
+   We may resurrect it later, but leave it out for now, as the closest
+   thing we have to a spec:
+
+   http://www.kaourantin.net/2005/09/some-word-on-blend-modes-in-flash.html
+
+   claims that alpha values should be subtracted, whereas real-world flash

+   files indicate that they shouldn't.
+
+commit 5dab62a2f922a515634d65b133aeb089e855b399
+Author: Carlos Garcia Campos <carlosgc@gnome.org>
+Date:
  Tue Jun 23 17:12:39 2009 +0200
+
+   Fix BlendColorBurn
+
+   It should return 0 when sa == 0
+
+commit e3a94e892850f91d2cb0463dc2c86f7217deb8a4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 20 20:19:57 2009 -0400
+
+   Add screen-test.c test program
+
+commit 16873f6d1baa3b0c26b31e71ad6d36d53efaf9e3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 17 11:46:01 2009 -0400
+
+   Make the composite test window bigger by default.
+
+   Also rearrange the squares to better match typical aspect ratios.
+
+commit eb4fd0477a4f3acd111fc9132f2dec7f1f63f3e1
+Author: Carlos Garcia Campos <carlosgc@gnome.org>
+Date: Thu Jun 18 15:24:33 2009 +0200
+
+   Use floating point in SetLum
+
+commit 96d5044c0c4a9e34deb97655679f1d688c192c99
+Author: Carlos Garcia Campos <carlosgc@gnome.org>
+Date: Wed Jun 17 17:40:52 2009 +0200
+
+   Do not use combineMask in component-alpha functions
+
+commit bf356c6d8cdbabf2faf4b6d77f94ccd3bd0459fb
+Author:
 Carlos Garcia Campos <carlosgc@gnome.org>
+Date: Wed Jun 17 16:59:45 2009 +0200
+
+   Fix typo
+
+commit cdae71ee85c74f702a8f0b999432e4d6d5caf766
+Author: Carlos Garcia Campos <carlosgc@gnome.org>
+Date: Wed Jun 17 10:46:44 2009 +0200
+

+   [TEST] Update composite-test to test more operators
+
+commit c35685255f07a5a1f656d3153b5534876481b65b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Nov 29 15:12:45 2008 -0500
+
+   Fix ColorDodge and ColorBurn to conform to the spec
+
+commit 49a4fc09694d241f6b9f725a084c27eba3e31d00
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Nov 29 15:11:07 2008 -0500
+
+   Remove optimizations that I'm not convinced are correct
+
+commit 3fb71f8b41dedd55982eccd16b8518cce10258fa
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Nov 29 15:02:04 2008 -0500
+
+   Fix some more problems in MultiplyC
+
+commit 254e62159b4a8652c1dd9c47d0e5e0d0ff2ced3a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Sat Nov 29 14:53:57 2008 -0500
+
+   Fix various problems in FbCombineMultiplyC
+
+   Don't read the destination unless we have to. fbByteMulAddC()
+   produces its result in its first argument, not its last.
+
+commit a158d7f14f4b987e9e6380ffe896dbcfd41799ec
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Nov 26 13:52:00 2008 -0500
+
+   Add some comments about the linearity of the non-separable blend modes
+
+commit cae5062d3bf16d32cf675ccb0030e29cc940b25e
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Nov 25 22:53:37 2008 +0100
+
+   fix component-alpha versions to set source to 0 when mask is 0
+
+commit 9df72ebdb8280c7ca3b2696c3f7f48b69438502b
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Nov 25 22:50:54 2008 +0100
+
+   remove debugging leftovers
+

+commit 19aae37bfb8fb349258675dd96872c5ba65dcce1
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Nov 25 22:50:17 2008 +0100
+
+   correct subtract implementation
+
+commit
 f130d99c94edbf5aeebeb317df64dbd7a6d20efd
+Author: Benjamin Otte <otte@gnome.org>
+Date: Sun Nov 23 18:36:32 2008 +0100
+
+   fix Multiply component-alpha version
+
+commit 4bb1eac4e7c6c785da3c2b2b1836c83446befc80
+Author: Benjamin Otte <otte@gnome.org>
+Date: Sun Nov 23 18:34:50 2008 +0100
+
+   fix comment
+
+commit 73810b320ec5eab5bcbd9137f012cf0e4bf6867f
+Author: Benjamin Otte <otte@gnome.org>
+Date: Sun Nov 23 17:03:50 2008 +0100
+
+   fix component-alpha versions for seperable blend modes
+
+commit 4b921c1d910a5d78ca4784a6879789a5af6718d3
+Author: Benjamin Otte <otte@gnome.org>
+Date: Sun Nov 23 16:23:22 2008 +0100
+
+   rename operator SUBTRACT to FLASH_SUBTRACT
+
+   Also document it and move it out of the PDF blend modes to make clear
+   that it is not in any way related to PDF.
+
+commit 7cbfe3ba214006dda5fa6d21871ef6fc61067005
+Author: Benjamin Otte <otte@gnome.org>
+Date: Sun Nov 23 15:42:53 2008 +0100
+
+   rework blend-mode documentation
 to match current code better
+
+commit f26c9ec438c97515ae874711859e012971ea920a
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Nov 19 21:07:13 2008 +0100
+
+   typo fix: Seperable => Separable
+
+commit ea17e2e2e43e578b3799fe9a6f7533569aed880c

+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Nov 19 21:06:06 2008 +0100
+
+   remove semicolon at end of macro
+
+commit ecf9f83ac64236b0834d268e6235306ab84fb749
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Nov 19 21:05:16 2008 +0100
+
+   remove a leftover debugging statement
+
+   That was an assertion check by infinite loop
+
+commit c061b4dd16af52383afae470e845bd43a552d925
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Nov 13 17:40:10 2008 +0100
+
+   invent a Subtract operator for component alpha
+
+   This seems to make sense, and as I can't test it against Adobe's Flash
+   player as that one can't do component alpha, this one looks best.
+
+commit 93e32235e6a72bfea14d36a0407fbbe6482e20d9
+Author:
 Benjamin Otte <otte@gnome.org>
+Date: Thu Nov 13 17:34:19 2008 +0100
+
+   add non-seperable versions for component alpha
+
+commit 239cc46aa77b4be71d738c0136a5465796a29886
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Nov 13 17:29:00 2008 +0100
+
+   add component-alpha versions of the seperable blend-modes
+
+commit 2f57b6f4e9020654ad175a593b17ff07fc3f5cbd
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Nov 13 16:12:22 2008 +0100
+
+   rewrite nonseperable blend modes the same way as seperable ones
+
+commit fd1bec2859f775feaff329315cdf16ad27ec4728
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Nov 13 15:13:17 2008 +0100
+
+   clean up seperable blend modes
+
+   The code is now shorter and faster than before

+
+commit e8b4394a409cda48b6598847292b768ad027dbf0
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Nov 12 19:26:13 2008 +0100
+
+   prefix HSL operators with HSL
+
+   This is necessary to distinguish SATURATE from PDF's HSL SATURATION
+
+commit
 f08263a25181a5f18991490629ca2e9582836ac6
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Nov 12 19:12:12 2008 +0100
+
+   remove invert operator
+
+   src INVERT dest == (white IN src) DIFFERENCE dest
+
+commit 755638d73cfc5879bd440f0148e982e562509fd0
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Oct 23 21:20:23 2008 +0200
+
+   add nonseperable blend modes from PDF spec
+
+commit e3ad87033e3771a3c54b1b8e49813a6959315cd7
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Oct 9 21:46:50 2008 +0200
+
+   fix ColorDodge and ColorBurn to conform to the PDF spec
+
+commit 35bb57e7234994c4169458275e362f02cb5138aa
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Oct 9 18:00:45 2008 +0200
+
+   use PDF algorithm for soft-light
+
+commit 0735aeeaeba04f0c33f22b25a191cfd1f27c271d
+Author: Benjamin Otte <otte@gnome.org>
+Date: Tue Oct 7 15:13:45 2008 +0200
+
+   Add INVERT and SUBTRACT blend modes used in Flash
+
+commit 740425ab969adda1aaf36d8f52dec6f6e5303ed6
+Author:
 Benjamin Otte <otte@gnome.org>
+Date: Wed Aug 29 23:15:33 2007 +0200
+
+   use a pixman_op_t here

+
+   This improves the readability in gdb when debugging this structure
+
+commit 94e9673eaaf9e22530159f0335a0a30d2f2a0047
+Author: Benjamin Otte <otte@gnome.org>
+Date: Thu Sep 25 12:53:06 2008 +0200
+
+   Add support for extended blend mode. First pass.
+
+   This adds support only for FbCombineU function.
+   This work is based on equations provided in SVG 1.2 specification draft.
+
+   http://www.w3.org/TR/SVG12/
+
+   Based on a previous patch by Emmanuel Pacaud <emmanuel.pacaud@free.fr>
+
+commit 99108040f03726bf4bddf55baa7ff6acd796fcf0
+Author: Michel Dänzer <michel@daenzer.net>
+Date: Tue Jun 23 14:02:26 2009 -0400
+
+   Fix the build on big endian machines.
+
+commit bb3b3da18ac6e1f935008fa50cd854b3de19afc3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 13:44:48 2009 -0400
+
+   Rename PIXMAN_FORMAT_16BPC macro
 to PIXMAN_FORMAT_IS_WIDE
+
+commit 039d4618f79e384d93a7548466f80acae6da738c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 13:41:27 2009 -0400
+
+   Write alpha map fetching with FbByteMul() instead of div_255()
+
+   Delete the div_255/div_65535 macros.
+
+commit 3e39b566ee2aaa414b95b0dae98cc5971c399359
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 23 07:34:17 2009 -0400
+
+   Remove unused typedefs.
+
+commit 2c70814b6bff2091bcc55ae4252fe82ae53439e4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 20:43:08 2009 -0400
+
+   Delete unused _pixman_image_get_fetcher() function

+
+commit b3bd7394477a64ca0460655ca3a8e5326c402167
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 19:51:13 2009 -0400
+
+   Move accessor macros to their own header.
+
+   Also rearrange some things in pixman-private.h
+
+commit fe8ef09e9835f90b669a2b1ddfda49e839d6de53
+Author: Søren Sandmann
 Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 19:38:58 2009 -0400
+
+   Move FbGet8() macro into pixman-bits-image.c
+
+   It is only used for bilinear filtering now. Also some formatting
+   changes in pixman-private.h
+
+commit 03587764455bd41684bf29bbecb657ba45b0c341
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 19:35:11 2009 -0400
+
+   Delete FbInOverC macro
+
+commit 1c429b4fbedc5287659c836c0d30801a6209bf57
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 19:25:25 2009 -0400
+
+   Make pixman-mmx.c compile again.
+
+commit 7bb9df038293b591e687cbf3a9830476bef7f9fc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 16:34:15 2009 -0400
+
+   Fix typo in CLIP macro.
+
+commit 63b050de5b2627aee0d75c66244e55757ba007ab
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 16:05:27 2009 -0400
+
+   Turn the FbAdd() macro into an FbIntAdd() which doesn't take a channel.
+

+   The only use of the channel argument could be written better with FbByteAdd().
+
+commit 026ef583288e1e63e5a84ba998aea2e674f02a17
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Mon Jun 22 15:58:28 2009 -0400
+
+   Delete FbInU macro.
+
+   Replace uses of it with FbIntMult().
+
+commit 5028c1599ad9119dbb7b58d2f93e60c857aec769
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 15:21:40 2009 -0400
+
+   Use fbOver() instead of fbOver24.
+
+   fbOver() is faster anyway, and this lets us get rid of fbOverU.
+
+   Also use FbByteMul() in fbIn instead of four times FbInU.
+
+   Finally, delete FbOverC and FbInC since they weren't used.
+
+commit ca4750be0a5ea0a6910ad9f4eed6a9989c91c230
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 08:09:11 2009 -0400
+
+   Eliminate Fetch/Store24 macros.
+
+   Replace them with inline functions in pixman-bits-image.c.
+
+commit e68f8bc1187785309ed3befcda1e1a211fe624e6
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 07:05:24 2009 -0400
+
+   Remove unused ACCESS macros in pixman-bits-image.c
+
+commit 233d8907ed02d6624f458dd40c9db46055fc7630
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 22 06:51:04 2009 -0400
+
+   Various minor changes
+
+   - Add underscores to the pixman_image_get_solid(),
+   pixman_image_is_solid(), and pixman_is_opaque() names.
+
+   - A number of formatting fixes
+
+   - Move debug code to the end of pixman-private.h
+
+   - Collect all prototypes for image methods in one place
+

+commit 950bcd7d4a6226d969b0b69513f6806a2d40e08e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 22:33:31 2009 -0400
+
+   Some formatting changes
+
+commit 8b616c5725891f2f2d21b71796fb9af5644260e4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 22:16:39 2009 -0400
+
+   Delete struct point
+
+commit 653fe825c92935318e0d2d552c3a0336ef82a1de
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 22:12:25 2009 -0400
+
+   Move region helpers into pixman-utils.c
+
+commit 00d852c96931f4bc27dfec124062e71eb49dc9bc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 22:11:07 2009 -0400
+
+   Move code around
+
+commit a4ef790faac2c822df8336ee00c6fc5ea84aaa53
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 22:05:49 2009 -0400
+
+   Move pixman_version() to pixman.c
+
+commit f1049c61d6b6b977f56533644bbfa7e2a95ca3a1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 22:01:58 2009 -0400
+
+   Move pixman_compute_composite_region() into pixman-utils.c
+
+commit 7690af20fcf7f341a5162b77a66660cd05a155b9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 21:42:14 2009 -0400
+
+   Eliminate pointless Red/Green/Blue macros
+
+commit f6faf538eebed4722c085c2eef7b3ae524e3e00c
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 4 07:39:13 2009 -0400
+

+   Get rid of indexed argument to store functions
+
+commit fdb25d97477635dafb0f8c328de65727a2d73a48
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 21:36:43 2009 -0400
+
+   Move macros around in pixman-private.h
+
+commit 76bf3073d45e184973cfc992d8f366a4a5ed0127
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 21:32:23 2009 -0400
+
+   Move some macros into pixman-access.c
+
+commit e2b5b05b3818f6a4ecf24dd0030e22784af22e22
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 21:28:38 2009 -0400
+
+   Delete obsolete comment
+
+commit 271a0d34a07ee04d8de0cb435ab9242aeb0a4c5c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 21:28:24 2009 -0400
+
+   Move edge stepper macros into pixman-edge.c
+
+commit 92eca118ad9cdeb61a00a591916f4e34aaaab916
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Sun Jun 21 19:45:29 2009 -0400
+
+   Delete FB_MASK and FB_ALLONES macros
+
+commit 9541538a97b1101a886a26653a8b416701b2e065
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 19:38:57 2009 -0400
+
+   Implement fbStore_a2g2b2r2
+
+commit 433d94e60b8404df39582b6149e60a5faa965160
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 19:35:20 2009 -0400
+
+   Replace switch functions in pixman-access.c with a table of accessors.
+
+   Also delete unused orig_data pointer.
+
+commit d78e30b26be15683062a1a3b76fbbe7d3b5abe0f

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 19:06:25 2009 -0400
+
+   Rename pixman_image_can_get_solid() to pixman_image_is_solid
+
+commit 6e20c2574354d1cb071a1201ff166cb5e92c00d2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 18:58:53 2009 -0400
+
+   Turn fbComposeGetSolid() macro into a pixman_image_get_solid() function.
+
+commit 76aa72e8cac12400ac8f635b81642335b0d27310
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 18:51:36 2009 -0400
+
+   Delete unused WRITE_ACCESS() macro
+
+commit 3c0ed5b92dc205d4fa6c9fa2f2772022f2404549
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 18:51:06 2009 -0400
+
+   Move pixman_image_fill_rectangles() to pixman.c
+
+commit fb0fe616f2e0ce8f31f88887ca2a7ec394886b90
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 18:43:27 2009 -0400
+
+   Delete unused mod macro
+
+commit bfa6f8c0b0418a3b4337da6c8bd0d4e9eda7e83e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 18:40:25 2009 -0400
+
+   Eliminate bit fiddling macros from pixman-private.h.
+
+   There was one remaining use of FbMaskBits in the a1 trap rasterizer;
+   just move that macro there.
+
+commit 84886292e2c9be4149a32c7499015960331db426
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 18:29:39
 2009 -0400
+
+   Implement fbComposeGetSolid() as a call to pixman_image_get_scanline()
+
+commit 8e40734174e97ff319c31ba49096cc8b7d5117ae
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Sun Jun 21 16:45:17 2009 -0400
+
+   Eliminate FbStipMask macro.
+
+   It was only used for storing into a1 images, and that code could be
+   written more clearly by computing the bit index directly.
+
+commit 590d034bb399d28b191ac50c764d03ebd342e149
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 16:07:50 2009 -0400
+
+   Implement pixman_format_supported_destination() in terms of pixman_format_supported_source()
+
+commit 16a87a89e1330c18876aaf17ccc6f07243062ca8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 15:09:02 2009 -0400
+
+   Move FbGen macro into pixman-combine.c
+
+commit d18722cdb6ddde7abba9cd1492e636f2668fadf1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 13:18:46 2009 -0400
+
+
    Use DIV instead of _div In pixman-trap.c.
+
+commit 81d6725f3106a888fe0fbffba4a0d05d553d0777
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 11:19:00 2009 -0400
+
+   Move edge utilities into pixman-trap.c
+
+commit 793c92dadb6f9c82ace50711c0e8c51e62368f19
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 11:15:30 2009 -0400
+
+   Move compiler dependencies to a new pixman-compiler.h file
+
+commit 5624ca0417bf7a30b5b05235e902b237a77b8543
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 10:12:15 2009 -0400
+
+   Rename FastPathInfo to pixman_fast_path_t
+
+commit afcfc8efc48630f0f349aefc8c86619fc7514647
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 10:09:22 2009 -0400
+

+   Eliminate MSBFirst, LSBFirst, IMAGE_BYTE_ORDER, and BITMAP_BIT_ORDER.
+
+   Just use WORDS_BIGENDIAN instead.
+
+commit fd83e3594b440ade9acc1263dcd2a0980aa7ebcc
+Author: Søren Sandmann Pedersen
 <sandmann@redhat.com>
+Date: Sun Jun 21 09:50:24 2009 -0400
+
+   Rename combine.inc and combine.h.inc to pixman-combine.{c,h}.template.
+
+commit d7234efc9a5d6a371692287555820fcd0f7ba48d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 21 09:44:22 2009 -0400
+
+   Only use force_align_arg_pointer on gcc/x86-32
+
+commit 093112a1b720c3a74b28b7b4289feb16fbe4afd1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 20 20:28:36 2009 -0400
+
+   Rename pixman-pict.c to pixman.c
+
+   There are no traces of fbpict.c in it anymore.
+
+commit b7b6847b6692796a5da8590dd6254add6d566a7a
+Author: M Joonas Pihlaja <jpihlaja@cc.helsinki.fi>
+Date: Fri Jun 19 17:29:11 2009 +0300
+
+   Remove redundant NULL checks from general_composite_rect().
+
+   The general_composite_rect() function has two invocations
+   of the return_if_fail() macro before any of its variable
+   declarations. Removing them allows for compilation to
+   succeed using
 a pre-C99 compiler.
+
+commit d4dc812380f937908e466bfab52bfcc3b5334ebe
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 19 13:19:02 2009 -0400
+
+   Get rid of pixman_region_internal_set_static_pointers()
+
+   Instead just define the function in pixman-region16.c
+
+commit 8b344e417e06f80a24bff9b6fadf4d82b54ab911
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 4 07:31:39 2009 -0400

+
+   Rename PixmanTimer to pixman_timer_t
+
+commit 2f9787a9cf3fe0783d1b46a01534ba6588b53e3f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 4 07:29:14 2009 -0400
+
+   Rename GradientWalker to pixman_gradient_walker_t
+
+commit cacfd7fe33e7e7643199de0dffb8312c0c432ccf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 19 13:14:11 2009 -0400
+
+   Delete unused IS_SOURCE_IMAGE() macro
+
+commit 216f46eb7e3f468f2b64421bdfbcb6e58eafc7e8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun
 4 07:17:36 2009 -0400
+
+   Remove commented-out fbAddTriangles
+
+commit 43f3825660914aae7786537ad069758a057488ce
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 19 13:04:26 2009 -0400
+
+   Remove useless FbBits typedef
+
+commit 8821885207f74bf9a18b374a1ee5de2442f603a3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 4 06:52:32 2009 -0400
+
+   Delete unused CombineFunc{32,64} types
+
+commit e063bd5555ed874a351bada2ef2a7082c42cb426
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 19 12:57:56 2009 -0400
+
+   Rename bits_image.fetch_pixels_{32,64} to fetch_pixels_raw_{32,64}
+
+   Also add a couple of comments about what these functions do.
+
+commit ce2944747455265d24bbbd6ab4b843bf974c8126
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 19 12:28:59 2009 -0400
+
+   Delete empty FASTCALL macro
+

+commit 207c9480b5fdb30dd5b9bfc37707ff9cbf1d2d8a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Fri Jun 19 12:15:19 2009 -0400
+
+   Delete FbComposeData type
+
+commit 9dfaa6365f247c1fefb84805ecf850deebb05193
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 4 06:02:32 2009 -0400
+
+   Remove unused pixmanFetchGradient() declaration
+
+commit da001051d876051763dc0bc1a90d58ec7ca31e96
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 3 22:51:18 2009 -0400
+
+   Remove dstMask from pixman-fast-path.c
+
+   These were used to zero the x8 channel of PIXMAN_x8r8g8b8
+   destinations. However, we treat this channel as undefined, so there is
+   no need to zero it.
+
+commit 304412752e2cbb7a8d407ca1af45d4ec1508e5b2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 3 22:48:57 2009 -0400
+
+   Eliminate trivial READ and WRITE macros in pixman-fast-path.c
+
+commit ac3fdeb97b21bd03e1902166310533377abd441d
+Author: William Bonnet <william@wbonnet.net>
+Date: Fri Jun 19 07:27:28 2009
 -0400
+
+   Fix build on Sun Studio.
+
+   Don't use return in a void function.
+
+commit 94964c221fe8141e5177d98f5357dca33fa00544
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Tue Jun 16 12:08:29 2009 -0400
+
+   [NEON] Add ARGB8-over-RGB565 compositing blitter.
+
+commit af660613eefbb474fd62f01b6f073fae389bd6f7
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Tue Jun 16 12:08:29 2009 -0400
+

+   [NEON] Add transparent rect blitter.
+
+commit 8eeeca993252edc39da9c5c57545b81215fafc81
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Tue Jun 16 12:08:29 2009 -0400
+
+   [NEON] Replace Ian's glyph-blitter with a better one.
+
+   Each scanline of the destination is bulk-loaded into a cached buffer on
+   the stack (using the QuadWordCopy routine) before being processed. This
+   is the primary benefit on uncached framebuffers, since it is necessary
+   to minimise the number of accesses to such things and avoid
+   write-to-read
 turnarounds.
+
+   This also simplifies edge handling, since QuadWordCopy() can do a
+   precise writeback efficiently via the write-combiner, allowing the main
+   routine to "over-read" the scanline edge safely when required. This is
+   why the glyph's mask data is also copied into a temporary buffer of
+   known size.
+
+   Each group of 8 pixels is then processed using fewer instructions,
+   taking advantage of the lower precision requirements of the 6-bit
+   destination (so a simpler pixel multiply can be used) and using a more
+   efficient bit-repacking method.
+
+   (As an aside, this patch removes nearly twice as much code as it
+   introduces. Most of this is due to duplication of Ian's inner loop,
+   since he has to handle narrow cases separately. RVCT support is of
+   course preserved.)
+
+   We measured the doubling of performance by rendering 96-pixel height
+   glyph strings, which are fillrate limited rather than latency/overhead
+
    limited. The performance is also improved, albeit by a smaller amount,
+   on the more usual smaller text, demonstrating that internal overhead is
+   not a problem.
+
+commit 1a7f25946b5b64aa604fab0f6d428bacb5296a4e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 16 11:59:20 2009 -0400
+
+   Post-release version bump
+
+commit 9733b2c4d4ed8fbd3f6e770446b457e0526db152
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 16 11:52:48 2009 -0400
+

+   Pre-release version bump
+
+commit b1cb5922f785310ef790811b52e4e2b0c85dfccc
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Mon Jun 15 16:09:32 2009 +0300
+
+   Add RVCT support for straight blitter.
+
+commit b6a3868ced67eb363273bfbee0d850c4d06cca34
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Mon Jun 15 16:02:04 2009 +0300
+
+   Better CFLAGS handling for recent ARM platforms.
+
+commit 1217c11a02ef60a3955fd98f7cec48de4cb9561b
+Author: Jonathan
 Morton <jmorton@sd070.hel.movial.fi>
+Date: Wed May 27 15:31:59 2009 +0300
+
+   Misc warning fixes.
+
+commit 68ec1244cdd4aa2703739a19c7c3917231b7b889
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 13 09:32:59 2009 -0400
+
+   Add API to set a function to be called when the image is destroyed.
+
+commit ebc39ed35a9f79ac9bb329bfc7dc27f290f6e1b0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 10 08:52:31 2009 -0400
+
+   Work around X server bug.
+
+   X servers prior to
+
+   ebfd6688d1927288155221e7a78fbca9f9293952
+
+   relied on pixman not clipping to destination geometry whenever an
+   explicit clip region was set. Since only X servers set
+   source_clipping, we can just trigger off of that.
+
+commit 08eb065c568de5c0cb67b7b02ccb17bf72d5059c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 3 05:21:29 2009 -0400
+
+   Move region computation closer to the region walking.
+
+   Computing

the composite is region is a bit expensive, so only compute
+   it if we are likely to actually walk it.
+
+commit 78ca4eea6467dbb6b9da1198b9526750a0a8dca3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 23:17:34 2009 -0400
+
+   Simplify clipping rule
+
+   The new rule is:
+
+   - Output is clipped to the destination clip region.
+
+   - If a source image has the clip_sources property set, then there
+   is an additional step, after repeating and transforming, but before
+   compositing, where pixels that are not in the source clip are
+   rejected. Rejected means no compositing takes place (not that the
+   pixel is treated as 0). By default source clipping is turned off;
+   when they are turned on, only client-set clips are honored.
+
+   The old rules were unclear and inconsistently implemented.
+
+commit b9683cb2ae519707e06a0b9302f8a373d336da12
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed
 Jun 3 00:25:54 2009 -0400
+
+   Fix pixman_image_is_opaque()
+
+   - Don't claim that non-repeating bits images are opaque.
+
+   - Don't claim that conical gradients are opaque ever.
+
+commit 7aeed3fc08b3359a3e4e6178f569dbb28ffdad08
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 22:57:23 2009 -0400
+
+   Only call fast paths when the images cover the composite region
+
+commit e67c7eedf203f4424bdfac7982d2bc7c6e1748d2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 22:17:00 2009 -0400
+
+   Pass the region to walk_region_internal()
+
+commit 85a2f55e6b55833cb4092c6e9e58497fbd9e7167
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 22:08:02 2009 -0400

+
+   Remove srcRepeat and maskRepeat arguments from _pixman_walk_composite_region()
+
+commit dc0a9dd65ab2622646d1220adf3e5ea70dcae951
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 22:04:47 2009 -0400
+
+   Remove all
 the srcRepeat/srcTransform stuff from the general implementation.
+
+commit f885caad4a709d7d2c4f0bf63d735080bcca3c24
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 22:02:52 2009 -0400
+
+   Make _pixman_walk_composite_region() a wrapper around an internal function
+
+commit d5768884a1576e7ad4a9d1e24063d214babb7157
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 21:31:58 2009 -0400
+
+   Handle repeat_none/normal for 64 bit fetchers
+
+commit c9ea4a9722bc3c2223e8c8d72aa1b23598db489e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 21:20:42 2009 -0400
+
+   Make the untransformed path handle REPEAT_NONE and REPEAT_NORMAL
+
+commit cf7bf4eb57351b44f467eda9f4d9fa8f97754550
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 5 01:33:28 2009 -0400
+
+   Post-release version bump
+
+commit b721bc49199a24364bceb6e76ad9c6e6b2996905
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Fri Jun 5 01:10:00 2009 -0400
+
+   Pre-release version bump
+
+   Also squash some warnings and correct the variable name in RELEASING.
+
+commit 5f086792eeaea6b2c401105b8bbf0c92fb7d192e
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Thu Jun 4 11:24:26 2009 -0400
+
+   [NEON] Really fix filler bug.

+
+   Advance the destination pointer (r4 register) properly.
+   Found by Siarhei Siamashka.
+
+commit 3b12cc7a23f81581b027764be96bf028785b1b5f
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Thu Jun 4 11:24:22 2009 -0400
+
+   [NEON] Fix filler bug.
+
+   r5 is being sourced explicitly instead of the %[width] reference.
+   It's probably a copy-paste bug, not spotted because I didn't
+   originally write it.
+
+commit 3c570a815afb282df01f41acad385ff0e3e33899
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Jun 4 00:05:06 2009 -0400
+
+   Add an --enable-timers configure option to enable the TIMER_BEGIN/END macros
+
+commit
 7077138fb3c633e8791b2a4139ade07dbc677dd3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 3 23:54:57 2009 -0400
+
+   Some cleanups in the configure.ac file
+
+commit 9d442a6bc6f1ae28c3f36247bf3e2ab959fb2712
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 3 22:25:25 2009 -0400
+
+   Correct link to bugzilla in README
+
+commit 4465866cba3700e831101ea429d5de2a95cf7470
+Merge: a673a89 d4d716c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 3 21:49:59 2009 -0400
+
+   Merge branch 'many-pixels'
+
+commit a673a898e1e119836c9c68eff71feaec49f97bf1
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Wed Jun 3 10:43:42 2009 -0400
+
+   Delete now-unused fbCompositeSrc_x888x0565neon().
+
+commit 7b3e90c361602c4599ec592d83b4eb1eb0ea76cf
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>

+Date: Wed Jun 3 10:43:42 2009 -0400
+
+   Replace fbCompositeSrc_x888x0565neon with fbCompositeSrc_24x16neon.
+
+commit
 0bfd9904e4adafbaa04ddfe1c0b22df1dac411e5
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Wed Jun 3 10:43:41 2009 -0400
+
+   Enable NEON straight blits.
+
+commit 4da5316285976f43d19231548f79c8b3b02ce060
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Wed Jun 3 10:43:41 2009 -0400
+
+   Enable NEON copies.
+
+commit 15ec3977843029f61f9e869610123977da8b446a
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Wed Jun 3 10:43:41 2009 -0400
+
+   Enable NEON fills.
+
+commit 78faaa58d60f982eb4fdb674b7740315282d4d65
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Wed Jun 3 10:43:41 2009 -0400
+
+   Add more NEON fast paths
+
+commit d4d716cc25536b5a9db3ed216d64f5f9be8b69a2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 03:27:46 2009 -0400
+
+   Only advance the Z coordinate for non-affine transformations
+
+commit c2b119492949d89ae1823961438e7086c700ea3f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
   Tue Jun 2 03:25:46 2009 -0400
+
+   Consistently use 256 pixels as the size of the temp buffers
+
+commit 10bc25b01a00b94eac72d9afe890bd0ff3699951
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 1 19:51:06 2009 -0400
+
+   Inline repeating instead of doing it as a separate pass
+

+commit db4f7fc9df581af54c4ed760dee14ef8a09873d2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 23 21:10:46 2009 -0400
+
+   Move pixman_expand/contract to pixman-utils.c
+
+commit abb60f43f46b10f8057baa0fcc3eb480883ef23b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 23 21:03:39 2009 -0400
+
+   Change pixel wise fetcher to fetch many pixels at a time instead of just one
+
+commit 9a7ded161c014ba51f9d3723f29a32b759717673
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 11:37:01 2009 -0400
+
+   Remove unused access macro
+
+commit 2b82a4c14d8e8c8686a8b2d38abdc0df259e087c
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 09:00:24 2009 -0400
+
+   Add a 64 bit pixel fetcher and use it for solid colors
+
+commit f9fa5bcac04af660a2c873e7cfbc969cb37bee77
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:47:51 2009 -0400
+
+   Move simple fetchers after transformed fetcher
+
+commit c981eb95bb3f0806ad92a13e45cfff1ad6cf362c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:39:18 2009 -0400
+
+   Rename some of the fetchers
+
+commit e043530553ebfcebe106b5cc3a35448727e597aa
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:31:50 2009 -0400
+
+   Split filter switching into its own bits_image_fetch_filtered() function
+
+commit cb04bfd6b4932030b6e9114b926d6c71ce57b97f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:28:35 2009 -0400
+
+   Move 'adjust' code into the individual filters

+
+commit 94c6abe8fcddce64efa7975e7f71296b1a049b1c
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:18:40 2009 -0400
+
+   Add bits_image prefix to fetchers
+
+commit 5b8304fd17b86639a3adb3eec8ce1116a9d3425e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:15:35 2009 -0400
+
+   Move some code around - use image->fetch_pixel in FbFetchSolid
+
+commit 48a2d0bba24ac5c9c1426efd3cab08c652ab8952
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:13:39 2009 -0400
+
+   Rename _pixman_image_fetch_pixels() to bits_image_fetch_alpha_pixels
+
+commit 0486f0f3241225c887549def31e5e246ff16255f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 08:04:38 2009 -0400
+
+   Get rid of the StoreExternalAlpha() functions
+
+commit d9b045d18e4723e710dab410fc011d36fc5dd327
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 07:49:55 2009 -0400
+
+   Add fetch_scanline_raw{32,64}
+
+commit 67cd7fcbdfe026ddc4967c07939c2a548a80d6b5
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 07:13:51 2009 -0400
+
+   Add store_scanline_raw_{32,64} virtual functions to bits image
+
+commit 2434524fd9b8258af88afb1d71fe25813a5def2e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 20:32:42 2009 -0400
+
+   Move remaining pixman-transformed.c code into pixman-bits-image.c
+
+commit 4bd73c4d6a1d0489c8eb35a867ef55187ca75650
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 20:27:51 2009 -0400

+
+   Fix coordinate computation for perspective transformations
+
+   - Don't convert to integer
+
+   - Saturate to INT16_MIN/MAX on overflow
+
+commit 3dd2496890ccf499721df8b86f95c8f5b8ad196a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 18:39:26 2009 -0400
+
+   Get rid of pixman-transformed-accessors
+
+commit df23b360a0330e89c1f38f9d64e8ac150ea740e4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Wed May 20 16:52:31 2009 -0400
+
+   Remove unused code from pixman-transformed.c
+
+commit 2557931bac461d8a0274ad638c12687afbe26145
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 12:44:55 2009 -0400
+
+   Handle alpha maps in _pixman_image_fetch_pixels()
+
+commit 72ae714b7400db7282aa0f92cc740bc106685e54
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 08:28:54 2009 -0400
+
+   Only do region lookups when the source region is different from the full region
+
+commit ccbe5cf8f39f57a973e5901ad5fe583557947e98
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 07:40:29 2009 -0400
+
+   Fix typo in fetch_bilinear_pixels()
+
+   Change the number of temp pixels in FbFetchTransformed() to something a little more reasonable.
+
+commit 72a3e20c722b16f1b28975451d33e934f54da46f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 19 10:04:33 2009 -0400
+
+   Process the correct number
 of coordinates for the NEAREST filter
+
+   The number of coordinates to process is twice the number of pixels.

+
+commit e8b4ebf59143a04f5b6f10fb112d39ca50250293
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 19 09:23:01 2009 -0400
+
+   Fix a couple of bugs in the bilinear fetcher
+
+   - The x and y distances are the most significant fractional bits.
+
+   - We need to fetch four times the number pixels produced.
+
+commit b24fc024fabed9406958611edc607f2af51e46cd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 19 08:30:01 2009 -0400
+
+   Make fbFetchTransformed() used the new filtered many-pixel fetchers
+
+commit 8e0ad050e7ce7b3200e6126f782bad94d9df97f6
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 19 08:09:03 2009 -0400
+
+   Add fetch_convolution_pixels() function
+
+commit 1510ffb750b8b74c32dffd11cc0f20ce091767c1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May
 19 06:59:13 2009 -0400
+
+   Add fetch_bilinear_pixels() function
+
+   A bilinear fetcher that fetches many pixels instead of just one.
+
+commit a156e4e097f424722c4f1d03f0cf4bb9370962d4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 19 06:18:00 2009 -0400
+
+   Add fetch_extended() function
+
+   This function takes a list of coordinates and transforms it into
+   another list of coordinates, according to the repeat method of the
+   picture.
+
+commit d2cbfeca0efbf108c320e38bb39970af57c84438
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 19 05:23:29 2009 -0400
+
+   Add _pixman_image_fetch_pixels()
+

+   Including a virtual fetch_pixel() function in bits_image_t.
+
+commit bd1cc87da39ad2e631bec5fa988a2e03eae0f929
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 16:51:28 2009 -0400
+
+   Get rid of toplevel argument to implementation constructors.
+
+   It was always NULL anyway.
+
+commit
 8d523bd9f3eb44b9e9a3c64f153626c39a0fffdc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 2 07:47:29 2009 -0400
+
+   Make sure the whole delegate chain has the correct toplevel
+
+commit 812a993843542f1ff051c46fe627315fcb73bc56
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 30 22:23:27 2009 -0400
+
+   Post-release version bump
+
+commit 3bad5eefd0d4e6ceb4ea52dd5117bf38649b31aa
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 30 22:09:11 2009 -0400
+
+   Pre-release version bump.
+
+   Also delete non-existant header files from pixman/Makefile.am
+
+commit e3dba0f61af9583728f94210392cc12b602acc2e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 30 21:44:08 2009 -0400
+
+   Create a vmx pixman_implementation_t
+
+commit 0c92309a8ab887efd73737b627baca36d800c6f8
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sun May 24 18:41:06 2009 +0200
+
+   Update vmxCombine*U to the
 new interface
+
+   Make the functions use different codepaths depending on mask being non
+   NULL. It could be speed up a bit more but should work as before
+   speedwise. Conformance checked with cairo tests.
+

+commit 21034db1daf90ac2b17f6929e72b3a0b953e81c4
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed May 27 22:46:23 2009 +0300
+
+   Scaling test updated to provide better coverage for problematic cases
+
+   Now scaling test should reliably detect problems in new scaling code.
+   Maximum image size reduced to improve performance (more tests can be
+   run per second) and also simplify detected errors analysis.
+
+commit 53ce8838254d436b6a4d527aacdece7dba7ceacd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 29 22:21:37 2009 -0400
+
+   In pixman-sse2.c test for non-zero source, not just non-zero source alpha.
+
+commit da9f3266fd00a5634fd2fb8a9cffbf24d668aaab
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Fri May 29 21:20:20 2009 -0400
+
+   In the mmx implementation, check for source == 0 rather than alpha == 0.
+
+   Otherwise we compute the incorrect value when the source has zero in
+   the alpha channel, but non-zero in the color channels.
+
+commit f889ad9f362293f00c142aa14e87fd212aea54c1
+Author: Jonathan Morton <jonathan.morton@movial.com>
+Date: Fri May 29 13:38:45 2009 -0700
+
+   Fixup the arm-simd and arm-neon implementations.
+
+commit d6dfafd9584c37d0d382c5ca974eab04209ad834
+Author: Magnus Kessler <Magnus.Kessler@gmx.net>
+Date: Thu May 28 12:09:07 2009 +0100
+
+   pixman: define pixman_have_{mmx,sse2} on 64-bit Linux
+
+   The refactoring of pixman removed pixman-sse2.h and pixman-mmx.h in commit
+   41a9a17e0308f2075bb1bd59c4411e43a67d49ec
+   (http://cgit.freedesktop.org/pixman/commit/?id=41a9a17e0308f2075bb1bd59c4411e43a67d49ec).
+   On 64-bit Linux this breaks linking of new programs as well as execution of
+   existing programs with the
 following errors:
+
+   ../pixman/.libs/libpixman-1.so: undefined reference to `pixman_have_mmx'
+   ../pixman/.libs/libpixman-1.so: undefined reference to `pixman_have_sse2'
+

+ This patch fixes the issue for me by re-introducing the definitions for these
+ functions. It might be preferable, though, to create proper trivial static
+ inline functions instead.
+
+ Signed-off-by: Magnus Kessler <Magnus.Kessler@gmx.net>
+
+commit 3d93070db88563b5a8f1e07f53f86c5e8ada8bbf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 27 21:51:00 2009 -0400
+
+ Really fix PPC build.
+
+ Add a pixman_composeFunctions variable to pixman-vmx.c.
+
+commit 3f5c2936c67d2b0dcf08b80e11c954ba73602ee2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 27 21:15:18 2009 -0400
+
+ Add back pixman_composeFunctions since vmx is not ported to implementations yet
+
+commit 6f93d36915fe3a8d8c75d26af8d5b9ba58aba4e3
+Author: Søren Sandmann Pedersen
 <sandmann@redhat.com>
+Date: Wed May 20 06:04:15 2009 -0400
+
+ In _pixman_implementation_fill() don't call the delegate; call the actual implementation
+
+commit a5a249613ba44ff791a7415f32192b1a0cc717db
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 17 04:56:13 2009 -0400
+
+ Call the toplevel implementation for combining
+
+commit e5c367120adaa5ae265866336d097f0435300706
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 16 11:22:54 2009 -0400
+
+ Set up combiner functions for an implementation directly in combine.inc.
+
+ Previously it would go through two big tables, and the general
+ implementation would select the correct one dynmcailly.
+
+commit fb272d1464f12bd913d3fdbc4ec512758b5c4c98
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 16 10:24:30 2009 -0400
+
+ Consolidate the general implementation into one function
+

+commit 6a22abd899b2c226c01be055145c6ee3e469ee3c
+Author: Søren
 Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 16 09:56:31 2009 -0400
+
+   Move the argument struct into pixman_image_composite_rect
+
+commit 4983f6b26cdd36eafbb97c21e5eb8d54ba59fa21
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 11:32:59 2009 -0400
+
+   Make a couple of functions static
+
+commit 41a9a17e0308f2075bb1bd59c4411e43a67d49ec
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 11:31:30 2009 -0400
+
+   Delete pixman-sse2.h and pixman-mmx.h
+
+commit 5dc9671b2588bfe084d69789e5c367474c5efa92
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 11:27:01 2009 -0400
+
+   Make the fast_path implementation run the c_fast_paths
+
+commit 364e218ad6a68028b4c11d051faee33f80513af4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 11:24:28 2009 -0400
+
+   Split fill implementations out in the implementations
+
+commit 24e73d69ee99c2dc19d474b75f262e6efddfccf1
+Author: Søren
 Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 11:04:07 2009 -0400
+
+   Add alignment workaround to sse2
+
+commit 1369b0b9d4ce89c50f56ec1c552b534f96273c1c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 11:03:15 2009 -0400
+
+   Add a general_blt() that just returns FALSE
+
+commit 9955b1516902d7671d41777bf1989f23cb0a87ed
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 10:56:15 2009 -0400
+

+   Move sse2 and mmx blt implementations to their respective files
+
+commit 46f0707481d50950fdb5d4588486affef0baa9ef
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 10:32:36 2009 -0400
+
+   Move gcc alignment workaround to pixman-sse2.c
+
+commit 53150f4fcafba0a5a69fddaee4b2ae687f0a2149
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 10:28:41 2009 -0400
+
+   Set up SSE2 combiners
+
+commit 63c1ab031347dd2f26a25f29589516e1e59ba8db
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Wed May 13 10:23:01 2009 -0400
+
+   Make pixman_implementation call the right combiner
+
+commit c8a2c336a7a90abc094ec57a4ae15ffabf6e1763
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 10:15:58 2009 -0400
+
+   Use the implementation's combiner's
+
+commit cb236a85df18f0f5e04698fb63c3895c2a2762dc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 10:06:29 2009 -0400
+
+   Move SSE2 variable initializations to pixman_implementations_create_sse2
+
+commit 03fa1bcb9af2cf48148b03c9a02cf5b4a7340356
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 09:50:55 2009 -0400
+
+   Move mmx fast path code to pixman-mmx.c
+
+commit 6e13149f99d7922ae84086f7867c9a9b69a49203
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 09:44:45 2009 -0400
+
+   Move sse2 fast path running to the sse2 implementation
+
+commit cb8608bba4f212aceef0cf579c650ee4988f56bd
+Author: Søren

Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 09:42:42 2009 -0400
+
+   Change pixman_lookup_fast_path() to actually run the fast path
+
+   Then just return in the general implementation if we ran a fast path.
+
+commit bee5549f6b469989a45cb3bcd4a916a6799c182d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 09:26:42 2009 -0400
+
+   Add _pixman_choose_implementation
+
+commit 713fb295761f13989bc0da31c26b3a1535ab449e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 09:21:37 2009 -0400
+
+   Remove fast path lookup code from pixman-general
+
+commit f5837da6e24cb1adf116f42724b83948c70476f0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 09:12:04 2009 -0400
+
+   Beginning of sse2 implementation
+
+commit 9a25f0fb672c2b6aee488958cf7f7c6e9ea3a33b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 09:06:19 2009 -0400
+
+   Copy fast path lookup code into pixman-utils.c
+
+commit
248ef3ec24bfcb4759f12e1839456c0c422b994c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 08:51:09 2009 -0400
+
+   Initial fast path implementation
+
+   Move fbSrcScaleNearest() here, and move
+   _pixman_walk_composite_region() to pixman-utils.c
+
+commit 2c64b2a6487114263be8f26fc9328ddc36c61b9a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 08:14:01 2009 -0400
+
+   Change prototypes for compositing functions to use 32 bit integers
+
+commit d6345a69fb7179ce6dc71117423e83baef427071

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 05:12:52 2009 -0400
+
+   Add component alpha combiners in pixman-implementation.c
+
+commit 918f763a9111f643d5b8a1460258089e79f68fb0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 04:52:28 2009 -0400
+
+   Beginning of MMX implementation
+
+commit 4b8f440d494f675c2ae5b9d41d950a6c79d14548
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Wed May 13 04:32:32 2009 -0400
+
+   Move entire C implementation into pixman-general.c
+
+commit 12726de921a621b8147d12d7e0788076bc4cc80d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 04:04:36 2009 -0400
+
+   Add beginning of general implementation
+
+commit d2faa63aee2179188dba712835c40068729565ff
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 03:40:05 2009 -0400
+
+   Formatting
+
+commit a17e27c2b4afc6118e5aeae380eb96d98f982033
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 03:31:11 2009 -0400
+
+   Beginning of pluggable implementations
+
+commit 25509f4b0b3a6b17810605706e5b93e0b9f4cb08
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 18:28:03 2009 -0400
+
+   Move fbStoreExternalAlpha{,64} into pixman-bits-image.c
+
+commit d74ad7c0fe9bd50ae04b59806f6c2bb9e6289634
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu May 21
 10:45:51 2009 -0400
+
+   Add new store_scanline_{32,64} in bits_image_t

+
+   Also move fbStore and fbStore64 into pixman-bits-image.c
+
+commit 74f837b1a2e85f2bfcaaf5c659077e4883fe6ac7
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 23 11:33:21 2009 -0400
+
+   Post-release version bump
+
+commit a282b640becfa1bb4979382f6a49cb59a7f992e2
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Fri May 22 12:13:57 2009 -0700
+
+   NEON: Remove some unneeded casts
+
+   There are some unnecessary (void*) casts. Eliminate some of them. Doesn't
+   change the generated code.
+
+commit ff866e70e399e655ad9b5a851bb682463fdda5ac
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Fri May 22 11:56:44 2009 -0700
+
+   Fix uses of dst_keep
+
+commit 19d6669aacd8f0ba5246448e423c1cbce9cb4fd3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 22 12:07:55 2009 -0400
+
+   Pre-release version bump
+
+commit 67addb4b3800f754155c8607bca85d23d840e056
+Author:
 Jonathan Morton <jonathan.morton@movial.com>
+Date: Fri May 22 12:01:26 2009 -0400
+
+   Initialize the ARM SIMD fast path array.
+
+commit 2f1732359787f946bd1efd92be1f2f86aa91be3c
+Author: Jonathan Morton <jonathan.morton@movial.com>
+Date: Fri May 22 08:25:26 2009 -0700
+
+   Fix compile error caused by e42fae9e8364f5f0791f9fce749ab18b33acf598
+
+commit 85b390cadf8c60808ed17df95885e72c082ad180
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 20 10:45:29 2009 -0400
+
+   Fix alpha map computation in pixman_compute_composite_region()

+
+   According to the RENDER spec, the origin of the alpha map is
+   interpreted relative to the origin of the drawable of the image, not
+   the origin of the drawable of the alpha map.
+
+   This commit fixes that and adds an alpha-test.c test program.
+
+   The only use of alpha maps I have been able to find is in Qt and they
+   don't use a non-zero alpha origin.
+
+commit cb4085bdb5a40c38209f69c26b3ffe60d08ff4de
+Author:
 Jonathan Morton <jonathan.morton@movial.com>
+Date: Thu May 21 07:16:34 2009 -0400
+
+   Avoid malloc() by allocating a fixed set of boxes on the stack
+
+commit 5424d0245b28dff81032341a60dea1dd70c594b7
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu May 21 05:07:19 2009 -0400
+
+   Fix build on ppc. Pointed out by Chris Ball
+
+commit 14cd45dc4a63296a549bcc53453ca40beed67f51
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 05:53:40 2009 -0400
+
+   Make SSE2 fast paths static and remove them from the header file
+
+commit 0f1a212bf24490cbf80d6135bac17c5122d18cd2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 05:49:13 2009 -0400
+
+   Make MMX fast paths static and remove them from the header file
+
+commit 87f18154c1198752f2217241c568c28a103e69f6
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 5 09:07:32 2009 -0400
+
+   Notes on component
 alpha
+
+commit ac2299693f76be9c0d19a015096497d26aaf2c7d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 5 08:49:49 2009 -0400
+
+   Note about glyphs polygons
+

+commit c093ee8a415602d78b53dbe936ca743ed816d393
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 5 07:31:52 2009 -0400
+
+   Notes on output kernels
+
+commit 90ae09f2e4826d21ebab21c6538cfa7fe1e0b90b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 5 03:10:44 2009 -0400
+
+   Further notes on the rendering pipeline
+
+commit fa274ffc6180fc0d57f11bf7b691fe95f344c5d9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue May 5 01:58:48 2009 -0400
+
+   Some roadmap notes
+
+commit ba1dcec76ae1033b0cbb3048c3d82450922a02cc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon May 4 17:39:19 2009 -0400
+
+   Describe alpha map in the pipeline
+
+commit 3fdefd683b5cbaaa4a93f1737197954f1df8bc57
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Sun May 3 22:46:34 2009 -0400
+
+   Notes on the rendering pipeline
+
+commit e07a4c6e8c1571f762c6f583204f16e3aca42882
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 21:07:06 2009 -0400
+
+   Move C fast paths to their own file pixman-fast-path.c
+
+commit e42fae9e8364f5f0791f9fce749ab18b33acf598
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 21:05:45 2009 -0400
+
+   Move the arch specific fast path tables into their arch files
+
+commit 93900a591c530a310542dfcca7e41d3391dc3565
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 19:12:02 2009 -0400
+
+   Move CPU detection code to its own file

+
+commit e6e6f6350230cc2e10e7dfe0ebd89ec4b587b660
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 01:18:49 2009 -0400
+
+   Move conical gradient code to pixman-conical-gradient.c and delete pixman-source.c
+
+commit 47abb3c7659a4eb1214c358796965f92f98fc901
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 01:08:54 2009 -0400
+
+   Move the radial gradient code form pixman-source.c into pixman-radial-gradient.c
+
+commit a10b0e7e136116cea95d6717f119d92599491f27
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 00:59:36 2009 -0400
+
+   Duplicate some code that was shared between radial and conical gradients.
+
+   It is going to live in separate files.
+
+commit 9a867fa231e37d945f1dc3d18cb17359b24dbde3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 00:56:16 2009 -0400
+
+   Move the linear gradient code from pixman-source.c into pixman-linear-gradient.c
+
+commit ade664ced3b9ac64120424f0fc80dc0deef69b00
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun May 3 00:46:30 2009 -0400
+
+   Rename pixmanFetchSourcePict to pixmanFetchGradient
+
+   Move the solid fill parts into pixman-solid-fill.c
+
+commit 8267d8d38f794c51e09f440c470f1c23c59e11aa
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 23:26:30 2009 -0400
+
+   Add a generic 64 bit fetcher and use it for gradients and transformed images
+
+commit ecaaef2f505fb61b383b194236b68ee59d52ecda
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 23:08:59 2009 -0400
+
+   Move the gradient walker code to its own file

+
+commit 51d972ecd885b05165a09d19fb3491ecb3ce813a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 22:55:56 2009 -0400
+
+   Replace pixman_image_get_fetchers() with pixman_image_get_scanline_{32,64}
+
+commit b7f113200e285c003b9225de83d8fe83492717ee
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 22:46:20 2009 -0400
+
+   Set up scanline getters for bits images
+
+commit b496d566dcc3e277f9ed9a8e93dbb3963a6d14e6
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 22:42:59 2009 -0400
+
+   Set up scanline getters for source pictures
+
+commit
 c62f2a14f433a07c5333cfefeed934214507d63a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 22:26:23 2009 -0400
+
+   Store get_scanline() functions in the image struct
+
+commit 0b497b33fe8bdfc404ed377f3b7525b4e5c11ad5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 22:00:25 2009 -0400
+
+   Add stubs for property_changed virtual functions
+
+commit 7bb615f6baf39e3d7c31a8ce521c0ff0b5172d7e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 21:14:36 2009 -0400
+
+   Split pixel images into pixman-bits-image.c
+
+commit 53bae97c7e7bf9b20ddfd400fd0bd11d03431d39
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 21:08:12 2009 -0400
+
+   Split conical gradient images into pixman-conical-gradient.c
+
+commit c43c3628935722f489d5e5359413dbb17d4c4a44
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 21:06:23 2009 -0400
+

+ Split radial gradient images into pixman-radial-gradient.c
+
+commit
76418e388e1439f8e7f33eb777856c8eb475a2fc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 20:54:17 2009 -0400
+
+ Split linear gradient images into pixman-linear-gradient.c
+
+commit 58de62bfada0d0ca945350fe3da38dee48aac7b4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 20:40:16 2009 -0400
+
+ Split solid fill images into pixman-solid-fill.c
+
+commit aa234489b0653ef63cf1b3d162aa7a339779c4da
+Merge: 7a9bfa1 010e286
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 16 12:51:05 2009 -0400
+
+ Merge branch 'master' of git+ssh://sandmann@git.freedesktop.org/git/pixman
+
+commit 010e28653f95bb78215e3cacb6a4f47d9a289fde
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 16 08:33:35 2009 -0400
+
+ Don't read potentially uninitialized data in pixman_CombineMaskU()
+
+ This is mainly to quiet valgrind. The data in question would only be
+ uninitialized
when the corresponding mask pixel was zero, so the end
+ result is zero in any case.
+
+commit 822cd47562c138002b45b24e6d4e25de3893088d
+Author: Loïc Minier <lool@dooz.org>
+Date: Fri May 15 16:11:16 2009 +0200
+
+ Fix fd check after auxv file open() [Bug 21749]
+
+ Signed-off-by: Julien Cristau <jcristau@debian.org>
+
+commit 58e08374e1cd01371786469787b3709eca27f463
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 15 07:47:59 2009 -0400
+
+ Don't call hyphenated git commands as they don't exist anymore
+
+commit b365547e7dd9cb02fb43d85ae4104903083c4ebf

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 15 07:47:22 2009 -0400
+
+   Post-release version bump
+
+commit 564ecfe8e9a1aba41f5a798de461294ae2fe1c6d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 15 06:57:59 2009 -0400
+
+   Pre-release version bump
+
+commit e483af47db769fcba559dda72699bc80d154b575
+Author: Adam Jackson <ajax@nwnk.net>
+Date:
  Fri May 15 06:26:48 2009 -0400
+
+   Fix overflows during trap rasterization. [Bug 16560].
+
+   Avoid overflows when rasterizing traps that fall entirely in the space
+   between the final sample row and the end of the coordinate system, or
+   in the space between the beginning of the coordinate system and the
+   first sample row. Such traps don't contain any sample points, so the
+   top and bottom of the edges can safely be moved to the beginning/end.
+
+commit 7a9bfa146154e555a9e2e8a807bb7df2b30f860c
+Merge: 81b94d7 e17fc72
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 13:10:01 2009 -0400
+
+   Merge branch 'master' of git+ssh://sandmann@git.freedesktop.org/git/pixman
+
+commit 81b94d725834d03f7856ae0d505a7340f1135326
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 13:09:45 2009 -0400
+
+   Add test that shows difference in clipping with transformed vs untransformed
+
+commit e17fc72e958e1ddee0b24e8a90ae9609e1e44391
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 06:17:55 2009 -0400
+
+   Remove unused CombineMask64 type
+
+commit a1bc6bf15995fae8be2de61f859fcc73d80f7b64
+Merge: ffce146 e74a284
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed May 13 05:58:36 2009 -0400

+
+   Merge branch 'master' into refactor
+
+commit e74a2847ddcb3b4c1675efaaa923e78556277dff
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 9 08:34:12 2009 -0400
+
+   Fix divide-by-zero crash
+
+commit a95c39c7d533ed7d6c8c7708604c5844cdc22dfe
+Author: Jonathan Morton <jmorton@sd070.hel.movial.fi>
+Date: Thu May 7 11:54:15 2009 +0300
+
+   Test USE_GCC_INLINE_ASM instead of USE_NEON_INLINE_ASM.
+
+   The former is now Autoconf enabled, and does what it says on the tin.
+
+commit 62af131a5a7222c58ed9aac38b7dddb75c0e87f7
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue May 5 15:25:43 2009 +0300
+
+   Fixed rendering bug
 for source alpha == 0 in OVER fastpath functions
+
+   Handling of the case when source alpha is zero was keeping destination
+   pixel unmodified. But this is different from how generic path behaves.
+   For example fbOver(0x00200483, 0x9CAC7E9F) == 0x9CCC82FF and the
+   destination pixel changes from 0x9CAC7E9F to 0x9CCC82FF in spite
+   of having zero alpha.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit a589afa3a7f3430a5b37bb9efb6574fe6ac8d9af
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Wed May 6 13:30:29 2009 -0400
+
+   Enable NEON assembly when we can build it
+
+   This adds detection for ARM NEON build support as well as gnu assembler
+   syntax detection from Jonathan Morton.
+
+commit ffce1461502c9cc4dbf613b64eddba4c4de6a4d4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat May 2 19:55:10 2009 -0400
+
+   Remove unused combineMaskU functions
+
+commit 38e5929400ea8d8bdf0830006f761a5498f558a5

+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 14:18:32 2009 -0400
+
+   Optimize source reading in combine4
+
+commit 3d6720a22777523c428914c2f84439d240778484
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:04:36 2009 -0400
+
+   Enable mmxCombineSaturateU
+
+commit 742d444f96bf160d2b7707cc894dd9b516f3179c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:04:29 2009 -0400
+
+   Enable mmxCombineAddU
+
+commit fd31818cfba0a750672bf50fbe550fa29ec77d99
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:04:23 2009 -0400
+
+   Enable mmxCombineXorU
+
+commit b7fe2f3378c6fb0828e863cb1a2df9191fb3e25e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:04:16 2009 -0400
+
+   Enable mmxCombineAtopReverseU
+
+commit 55a703f88c60acef5f1053d2d409c6e7048a714c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:04:10 2009 -0400
+
+   Enable
 mmxCombineAtopU
+
+commit f747b4184865c5e8b1c36c7116b6a47560f26e8d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:04:02 2009 -0400
+
+   Enable mmxCombineOutReverseU
+
+commit 3c6fd2699dc2741b6ad121eb441a32b52b169a82
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:03:50 2009 -0400
+
+   Enable mmxCombineOutU

+
+commit 9d13da03b7d4525aa8ffbb9b787dee8964323810
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:03:39 2009 -0400
+
+   Enable mmxCombineInReverseU
+
+commit 2262f0084722d8548071730f8fcbe318560e9fbf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:03:32 2009 -0400
+
+   Enable mmxCombineInU
+
+commit 5e5c78a6cc962f154b749d954c35ac663f8ac483
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:03:24 2009 -0400
+
+   Enable mmxCombineOverReverseU
+
+commit 81342af3bda044c059a13a37a9ede542212dc5a2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Fri May 1 03:03:16 2009 -0400
+
+   Enable mmxCombineOverU
+
+commit 3d684556dbdb087fa6d0631f06ccde38bb02dea5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 03:02:58 2009 -0400
+
+   Implement the mmx combiners with masks (disabled)
+
+commit cdb6aa49bec3595a00eb203c258111c713de9bbc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:01:09 2009 -0400
+
+   Enable sse2CombineSaturateU
+
+commit 29528b9523e779ff59029f11f79f1e22cbeaf4cd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:52 2009 -0400
+
+   Enable sse2CombineAddU
+
+commit 374ad0c363baf93e724409f575e1bbd7cfd8914a
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:47 2009 -0400
+

+   Enable sse2CombineAtopXorU
+
+commit c1bdbff80ac724cab8213d41f91c525e10ca9ff1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:39 2009 -0400
+
+   Enable sse2CombineAtopReverseU
+
+commit
 74d79f271c45807bf23b395e7050130f7da1139c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:33 2009 -0400
+
+   Enable sse2CombineAtopU
+
+commit c3d92fe51869c4e7b4ed83fb3bed5d0e7e651782
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:26 2009 -0400
+
+   Enable sse2CombineOutReverseU
+
+commit 53809bde5265378c400792bdb0b2639a0cde6c08
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:20 2009 -0400
+
+   Enable sse2CombineOutU
+
+commit 9293a51323e7e2b4aedb75c3fa55475aa4a269e7
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:12 2009 -0400
+
+   Enable sse2CombineInReverseU
+
+commit d45c0db9603a84989d59e5e1519b424ab756f221
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 01:00:07 2009 -0400
+
+   Enable sse2CombineInU
+
+commit 92c1199bf7e9379beca52fa880a0a436ffdda7e2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Fri May 1 00:59:59 2009 -0400
+
+   Enable sse2CombineOverReverseU
+
+commit d1879bc048be083198a35bb037273171bc07a211
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Fri May 1 00:59:51 2009 -0400
+
+   Enable sse2CombineOverU
+
+commit 22fda2d1aba7368a7545d1659b737e695a6c5b26
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 00:59:29 2009 -0400
+
+   Implement the sse2 combiners with masks (disabled)
+
+commit 1ddd91bfee87c13ce18d82d9ab9b2fb2de7cca22
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri May 1 00:58:38 2009 -0400
+
+   Use memcpy() in fbCombineSrcU when there is no mask
+
+commit 24012542295f80455c8df01262099b98d2b2de37
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 17:59:09 2009 -0400
+
+   Have the generic code go through the component alpha path always
+
+commit 8b2e08d494c6da1512f44d0754b0f52a184cc6f3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr
 30 17:53:48 2009 -0400
+
+   Get rid of separate combineU and combineC types
+
+commit 6d6e33d33818b56982f15da1943da499db220bc1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 17:14:04 2009 -0400
+
+   Change type of combineU to take a mask
+
+commit fe571035f8889fd12892f2257b64536feced3f4e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 19:50:24 2009 -0400
+
+   Make combineC function type take const args
+
+   Fix type of mmx component alpha combiners
+
+   Fix type of sse2 component alpha combiners
+
+   Fix type of vmx component alpha combiners
+
+commit f9a9ce8940c5644f25721abe6af6c72c4eabcfe7

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:54:32 2009 -0400
+
+   Remove accessor version of pixman-compose.c
+
+commit 0236393b031798a36144820a6254b646f9279580
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:51:09 2009 -0400
+
+   Remove unused xoff/yoff
 variables
+
+commit d0a6c1e9a5447e982dc4d544146c1b5234e490cf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:50:18 2009 -0400
+
+   Move store logic into pixman-image.c
+
+commit 363be5285950d20cc77cf4a7eb50d5f1f5fea0f7
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:42:47 2009 -0400
+
+   Move fetch logic to pixman-image.c
+
+commit bf879f1b37cfe5ee2ec921d26bf9d9126ca59b9c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:25:48 2009 -0400
+
+   Simplify logic to compute store function
+
+commit 20cedd756f54bc735fe25ab29aafd3cdfeddda30
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:14:13 2009 -0400
+
+   Formatting
+
+commit 4c74f519ca3788fe357caf54e22e6cab609b681e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:08:44 2009 -0400
+
+   Factor out duplicated fetcher finding code
+
+commit eb5d30a9d3bfb1bddaf9e60e2092353fe6b1dd48
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 02:03:03 2009 -0400
+
+   Get rid of SOURCE_IMAGE_CLASS_NEITHER again

+
+commit 87922006e506a252c81d42f0c1bacb59d1c67e60
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Apr 30 01:49:13 2009 -0400
+
+   More refactoring notes
+
+commit 8c646172743568584f7cefd3177b410fd3b22b2d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Apr 29 23:13:14 2009 -0400
+
+   Add notes on how Render actually works
+
+commit 57a3d09b01834103e61785c6269d152bdfd91a4f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Apr 29 20:15:20 2009 -0400
+
+   Move calls of the classification out of the if statements.
+
+commit cb73922ab9ab7d627f059601a03714cfff07d25b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Apr 29 19:55:19 2009 -0400
+
+   Move SourcePictClassify into pixman-image.c
+
+   In preparation for making pixman_image_t more of a real object, move
+   SourcePictClassify into pixman-image.c and expose it through a
+   function pointer. Later, this function will be split into smaller
+   functions depending on the exact type of the image.
+
+commit 3d73ce6813743811ff4413df554b438d3790c361
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Apr 29 01:44:56 2009 -0400
+
+   More refactoring notes
+
+commit 4d255141f78451ec5edb27ed29437651d6f64491
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Apr 28 23:02:49 2009 -0400
+
+   Add refactoring notes
+
+commit f98c800fba076197c56df7a990a30a98a115b9e0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon May 4 18:54:27 2009 -0400
+
+   Mention utils.h in test/Makefile.am so that make dist will pick it up

+
+   Pointed out by Julien Cristau.
+
+commit e047f605e2e9ef4f23e63c38259c5ceb720060dc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon May 4 18:34:54 2009 -0400
+
+   Move all the GTK+ test code into its own
 file, utils.c
+
+commit c882260d4b481283c3d59385bfa31bfeffc0a58f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Apr 28 22:49:31 2009 -0400
+
+   Include string.h and fix warning in trap-test.c
+
+commit c74becfdb939af56d19b1d8cef94f3cfc11f238c
+Author: Alan Coopersmith <alan.coopersmith@sun.com>
+Date: Tue Apr 28 08:44:47 2009 -0700
+
+   Add solaris-hwcap.mapfile to EXTRA_DIST
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
+
+commit dbb72c02fda0d59d0da4ba100c7120ebc244835f
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Mon Apr 20 16:13:44 2009 +0300
+
+   Updated scaling test to support rgb565, source clipping, etc.
+
+   Now test provides better coverage for various image scaling
+   cases. Unused byte for x8r8g8b8 format is ignored. Running
+   the test program without any command line options provides
+   a PASS/FAIL verdict based on the precalculated crc32 value
+   for using pixman with all the fastpath
 functions disabled,
+   which should simplify testing for correcteness.
+
+commit 880afeecc0d8bd610733292fd1cb692bba98dd5b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Apr 24 21:35:46 2009 -0400
+
+   Add trap-crasher.c test program
+
+   Based off of Pavel Kankovsky's test case in bug 16560.
+
+commit eac663a7c8d254842224f1aed992c91691a425b8
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>

+Date: Tue Apr 21 17:32:38 2009 -0400
+
+   Enable fbCompositeSolidMask_nx8x8888neon
+
+commit 99fd917adf9bf649fb94b32feae466250433a6ff
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue Apr 21 17:32:38 2009 -0400
+
+   Enable fbCompositeSolidMask_nx8x0565neon
+
+commit c0436ed25598bff4b6c426faf528e56726632ed2
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue Apr 21 17:32:38 2009 -0400
+
+   Enable fbCompositeSrc_8888x8x8888neon
+
+commit f2b3dfcce4add4027163289c0a282430418a4857
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue
 Apr 21 17:32:38 2009 -0400
+
+   Enable fbCompositeSrc_8888x8888neon
+
+commit 6da2f2b360225b6f1f20c00734db66499b94bfa0
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue Apr 21 17:32:37 2009 -0400
+
+   Enable fbCompositeSrc_x888x0565neon
+
+commit b8625fa2dd0811092f6c96b31596277bb0c61021
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue Apr 21 17:32:37 2009 -0400
+
+   Enable fbCompositeSrcAdd_8000x8000neon
+
+commit 452ed13867d4a7b1509030f7f79cbb17b51e7b36
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue Apr 21 17:32:37 2009 -0400
+
+   Enable fbCompositeSrcAdd_8888x8x8neon
+
+commit f2af00bf02dcf3e7e27ac3e035d41c387fc9400b
+Author: Ian Rickards <Ian.Rickards@arm.com>
+Date: Tue Apr 21 17:32:36 2009 -0400
+
+   Add support for ARM NEON fast paths
+
+   Currently disabled

+
+commit 9fdca26d3087da5a620d720f5a56ccbfdf55587e
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Tue Apr 21 17:32:36 2009 -0400
+
+   Add support for doing
 ARM simd detection on Windows
+
+commit 2423118e239e9c85dd68403bf8b97b30965df38e
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Wed Apr 15 10:38:37 2009 -0400
+
+   Add support for doing ARM simd detection on Windows
+
+commit 3d9716f44ea799e003c19783f087239fe89c88dc
+Author: Søren Sandmann Pedersen <ssp@dhcp-100-2-40.bos.redhat.com>
+Date: Thu Apr 9 20:38:53 2009 -0400
+
+   Post-release version bump
+
+commit 0a63858b07e1d7bccf54a69881e50246a530785d
+Author: Søren Sandmann Pedersen <ssp@dhcp-100-2-40.bos.redhat.com>
+Date: Thu Apr 9 16:38:05 2009 -0400
+
+   Pre-release version bump
+
+commit 86ec5419b238cba841bed303679fdaf8b4299a6f
+Author: Søren Sandmann Pedersen <ssp@dhcp-100-2-40.bos.redhat.com>
+Date: Mon Apr 6 15:25:03 2009 -0400
+
+   Fix search and replace issue
+
+commit 179750544d911adf5b01749e33b3ef44a62b0b0e
+Author: Alan Coopersmith <alan.coopersmith@sun.com>
+Date: Fri Apr 3 13:02:37 2009 -0700
+
+   Replace custom type ullong with standard uint64_t
 in pixman-mmx.c
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
+
+commit fd7449c4855e77d31770f9042ba43e186c541ce5
+Author: Alan Coopersmith <alan.coopersmith@sun.com>
+Date: Fri Apr 3 12:40:10 2009 -0700
+
+   Fix MMX & SSE intrinsics to work with Sun compilers & Solaris
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

+
+commit 47dabe1d025c420a07ac940ab46e5d00c752d2d8
+Author: Søren Sandmann Pedersen <ssp@dhcp-100-2-40.bos.redhat.com>
+Date: Sat Apr 4 06:04:42 2009 -0400
+
+   Fix pixbuf_from_argb32() to take premultiplied alpha into account
+
+commit fb8e9b16d5760aa82c1ca4c180faed964a4e7ff5
+Author: Søren Sandmann Pedersen <ssp@dhcp-100-2-40.bos.redhat.com>
+Date: Sat Apr 4 05:57:20 2009 -0400
+
+   Add a new trap-test test program.
+
+   Also some tweaks to the build system in the test directory to make it
+   build non-gtk+-using application when use of gtk+ is disabled.
+
+commit cdcbd9be3a2318bf650b8f56fea51acb5991b075
+Author:
 Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Wed Apr 1 18:26:24 2009 -0400
+
+   Set srcRepeat = False when using fbCompositeSrcScaleNearest
+
+   NORMAL repeat was broken (the optimized function can handle repeat operation
+   itself and can be screwed up if 'pixman_walk_composite_region' tries to help it
+   by splitting the work into handling multiple separate areas).
+
+   Splitting work into handling different areas does not work right for the
+   transform case (and it is never used for generic path). The point is that this
+   splitting only has full pixel precision at the moment, while correct blitting
+   needs to preserve some fractional part in calculations when moving from one
+   "tile" to another.
+
+commit a9adae3dc38764fe055b66e38175be5220fb3f9a
+Author: Siarhei Siamashka <siarhei.siamashka@nokia.com>
+Date: Tue Mar 31 20:58:56 2009 +0300
+
+   Image scaling regression test script
+
+   This test script can help in finding
 regressions in image scaling
+   fastpath implementations. It uses test program compiled with
+   and without fastpath code and can compare results of execution
+   for different pseudorandom compositing operations involving scaling.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 29e8556814ddddf269da90989e0de6d406d0afe6

+Author: Mark Kettenis <kettenis@openbsd.org>
+Date: Tue Mar 24 14:28:38 2009 -0400
+
+   Add support for BGRA and BGRx formats.
+
+commit e92417b7805315ff38a3d5758bd7075418d3ae6d
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Tue Mar 17 13:28:31 2009 +0000
+
+   Check for failure when intersecting regions.
+
+   Need to check and report the failure of intersecting the rectangle with
+   the clip region during pixman_image_fill_rectangles().
+
+commit 9ba3236354deb472edf109b6842a5b8749bd746c
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Tue Mar 17 08:39:48 2009 +0000
+
+   Check for allocation errors
 during pixman_op()
+
+   Propagate the error returns from pixman_rect_alloc().
+
+commit 2664c2d57552176052d753def2d307f63c2c9ff4
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Feb 10 19:47:19 2009 -0500
+
+   Remove stale comment
+
+commit ced5a4f356f5f2322a8aeb2876348707cf56dbcd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Feb 6 19:41:24 2009 -0500
+
+   Add license and copyright holders to COPYING
+
+commit 2d9c7cd84b276ebe2ff72d03c34a2d7f4f98b9f9
+Author: Thomas Jaeger <ThJaeger@gmail.com>
+Date: Tue Jan 20 18:40:46 2009 -0500
+
+   Implement PIXMAN_REPEAT_REFLECT for images
+
+commit 3d0911dee7f1d00b1e61fb183ab337c693b49adc
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Feb 6 18:03:31 2009 -0500
+
+   Reinstate SrcScaledNearest optimization
+
+commit 6815e754d31d5a431028c8ca62911c07b753edc8

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Feb 6 18:01:57 2009 -0500
+
+   Bump version
 number post-release
+
+commit 6df6a43dc7119a510cf9db2e62fcc970a539e5a3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Feb 6 17:31:32 2009 -0500
+
+   Bump version number pre release
+
+commit 6e6c7ac5e0bce2e1893675eb45a8d98876085794
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Feb 6 17:30:24 2009 -0500
+
+   Comment out SrcScaledNearest optimization that hasn't been tested much
+
+commit e651118b67111d36193f55a752d13e66df5ca953
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Feb 6 17:29:04 2009 -0500
+
+   Fix release targets to remove all hashfiles before generating tar balls
+
+commit 072d848f592530973f1f0a0066a320ec5965625c
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Fri Jan 9 12:48:22 2009 -0500
+
+   Add pixman-matrix.c to Makefile.win32
+
+commit c55db2905706ae78364bfb63dcfa62c00cc486c7
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Fri Jan 9 12:48:20 2009 -0500
+
+   Conditionally include
 config.h in pixman-matrix.c to fix win32 build
+
+commit 8f98ffadf58de1e28294b3ab2c09f380ccc535e5
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Sat Dec 20 17:18:51 2008 +0000
+
+   Fix pixman-1-uninstalled.pc to point to the libtool library
+
+   Otherwise we fail to link when compiling cairo against the uninstalled
+   library.
+
+commit 9d726712c22d8555d00b9f1ebacd5425dc9a5b61
+Author: Chris Wilson <chris@chris-wilson.co.uk>

+Date: Fri Nov 21 01:20:38 2008 +0000
+
+   Allocate initial array of RegionInfo on the stack.
+
+   The region validate() code is frequently called by cairo as it is used to
+   extract regions from the trapezoids for fast-paths through the drawing
+   code and also for fast-path clipping and the RegionInfo allocation (as
+   well as the pixman_rect_alloc during the final union) appears as a hot
+   spot on application memory profiles.
+
+commit 08530f5bf23386355a19b83db88173302c7a5300
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date:
  Wed Dec 17 10:35:03 2008 -0800
+
+   Don't treat PIXMAN_TYPE_YUY2 and PIXMAN_TYPE_YV12 as PIXMAN_FORMAT_COLOR.
+
+   Various pieces of code expect PIXMAN_FORMAT_COLOR (and its less cool older
+   brother, PICT_FORMAT_COLOR) formats to have ARGB bits, and the YUV formats do
+   not.
+
+commit 4546234c18f5bb5e2d193d2fa8ff5c3ca78bc716
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Fri Dec 5 12:01:03 2008 -0500
+
+   [arm-simd] Add a comment about aligning source and destination pointers.
+
+commit 985829f26b15aaa3e336127412c771027577313f
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Fri Dec 5 11:45:03 2008 -0500
+
+   Check alignment of 'src' pointer in optimized ARM routines
+
+   fbCompositeSrcAdd_8000x8000arm() tries to align 'dst' already but must check
+   'src' too. Otherwise, the next 4-byte copy loop might access an odd 'src' address
+   causing an alignment trap.
+
+   Patch from Enrico Scholz
+
+commit 4238047c228ca885a24bd341aa48a3ad54590837
+Merge:
 bfa76d4 d625ca5
+Author: Keith Packard <keithp@keithp.com>
+Date: Tue Nov 25 22:04:29 2008 -0800
+
+   Merge commit 'origin/master'
+
+commit bfa76d47ac85c88fbb9d7226f09c6c6654b10342

+Author: Keith Packard <keithp@keithp.com>
+Date: Tue Nov 25 22:03:55 2008 -0800
+
+   Bump to 0.13.3 after 0.13.2 release
+
+commit 0191d1a41ea273e5b1920ed83dfa33820870ebae
+Author: Keith Packard <keithp@keithp.com>
+Date: Tue Nov 25 21:37:54 2008 -0800
+
+   Bump version to 0.13.2 for release
+
+commit 6002963ea32d05592da05a6eeafd5d8ee9d9d496
+Author: Keith Packard <keithp@keithp.com>
+Date: Mon Nov 24 11:49:32 2008 -0800
+
+   Move matrix operations from X server to pixman
+
+   Signed-off-by: Keith Packard <keithp@keithp.com>
+
+commit d625ca5f291c01b3672648e5897f30a17326367f
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Mon Nov 24 15:11:24 2008 -0500
+
+   Optimize rectilinear nearest-neighbour scaling
+
+   Add a special case for a
 source transformation that is only a scale and
+   preserves rectangular pixels and doesn't rotate the image. Currently, only
+   SOURCE is special cased, however I plan to do more work in this area as needed.
+   The biggest advantage the specialization currently has is writing directly to
+   the destination surface instead of a temporary scanline buffer. However, it is
+   still pretty unoptimized but I want to keep things simple for now.
+
+commit 0c3dd54f6bf02156e4b94a2b5bfadef148715643
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Fri Nov 21 21:35:30 2008 -0500
+
+   Unify scanline buffer types
+
+   Change the type of the stack based scanline buffer to uint8_t to match the rest
+   of the variables. Also premultiply the scanline buffer size by sizeof(uint32_t)
+   because the bpp can be either sizeof(uint32_t) or sizeof(uint64_t).
+
+commit e201504da81cd9ceb7d20d12b3a923289f93b108
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Thu Nov 20 10:41:40
 2008 -0500
+

+ [arm-simd] Fix typo found by
+
+ 'and r7, %[upper_component_mask]' appears to by a short hand for
+ 'and r7, %[upper_component_mask], %[upper_component_mask]'. Use
+ the explicit form to avoid any confusion.
+
+commit cd2a79ab81045aa7e35bc901081e57dea6ac4845
+Author: David Woodhouse <dwmw2@infradead.org>
+Date: Tue Nov 18 16:01:11 2008 -0500
+
+ Less fragile Linux altivec detection
+
+ Instead of using really fragile SIGILL trapping, use a more reliable
+ detection method by checking what the CPU really supports.
+
+ https://bugzilla.redhat.com/show_bug.cgi?id=472000
+ https://bugzilla.redhat.com/show_bug.cgi?id=451831
+
+commit b1b0507c24d7a3afb1ee09fc23783fa22cd0e56e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Nov 10 23:18:09 2008 -0500
+
+ Make comments about PIXMAN_REFLECT more useful
+
+commit 056c6d97db753a928ac2794ec215c86cceffe901
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Wed Nov 5 23:58:56 2008 -0500
+
+ Various formatting fixes, and a simplification of the adjusting code
+
+commit 607562b2a6cc8536350d0a9bcb6fe99224ad4f1f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Nov 5 17:51:55 2008 -0500
+
+ Inline the fetchers
+
+commit 7a1717e605e502b52ebca999991d2e07791e0cd1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Nov 5 17:23:45 2008 -0500
+
+ Use fetch_nearest() instead of having duplicated code
+
+commit 49647e705438e0827d4a0e955dfaaf01cfae7524
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Nov 5 17:12:22 2008 -0500
+
+ Do the fetch_bilinear inline rather than in separate functions

+
+commit c8b314c43bd70a1c375aef3cacfe717ca9dbc85b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Nov 5 16:59:56 2008 -0500
+
+   Make use of fetch_bilinear() in the various bilinear implementations
+
+commit bad1ee39d3cc27ec07303f6484515a886430cda6
+Author: Søren Sandmann
 Pedersen <sandmann@redhat.com>
+Date: Wed Nov 5 16:38:33 2008 -0500
+
+   Add fetch_bilinear function
+
+commit 95f2af9584f8f4327ddf6d6948dee17ab48ad8b3
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Nov 3 13:09:02 2008 -0500
+
+   Add missing pixman-arm-simd.[ch] files.
+
+   Pointed out by Chris Ball and Adrian Bunk.
+
+commit 1d5bb7a3f17fb88cdabee8a27b79fb9fb129e189
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Oct 31 15:08:03 2008 -0400
+
+   Inlucde inttypes.h on digital Tru64
+
+   Bug 18007, reported by Joonas Pihlaja.
+
+commit f9db3ec7b94db45f388b210d7bed639048f1aa23
+Author: Adrian Bunk <adrian.bunk@movial.fi>
+Date: Fri Oct 31 14:59:30 2008 -0400
+
+   Rename the current ARM code to ARM SIMD
+
+   This code is only for CPUs supporting the SIMD instructions, not for all ARM
+   CPUs.
+
+   I stumbled above the recent commit with the ARM SIMD code while preparing a
+   patch that models the patch from #13445
 after the MMX and SSE2 cases:
+
+   The ARM SIMD option currently uses --disable-arm, although this code is only
+   for CPUs >= ARMv6. That's as if one would call the option to disable the SSE2
+   code --disable-x86.
+
+   This patch therefore renames the configure option and the function and file

+ names to arm-simd/arm_simd.
+
+commit b9e2dd783e34969aa7c41877b0aa49920788637b
+Author: Alan Coopersmith <alan.coopersmith@sun.com>
+Date: Wed Oct 29 18:13:59 2008 -0700
+
+ Define force_inline for compilers other than gcc & MS Visual C
+
+commit 3a775610f22d09fc030804c6dd02208d36920b54
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Wed Oct 29 17:14:41 2008 -0700
+
+ Cleanup inline definitions
+
+ Replace all inline definitions with a common one in pixman-private.h. Also, add
+ 'force_inline' and replace all existing uses of 'inline' as a forced inline
+ with 'force_inline'.
+
+commit d68ebb7701e61d7f19c87d2d3686eb30e85e2ede
+Author: Søren
Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Oct 15 18:46:38 2008 -0400
+
+ Remove unused AddMul_256 macro
+
+commit 8f5cb6916ddea072e453681d80a879a64bd22f8c
+Author: Benjamin Otte <otte@gnome.org>
+Date: Mon Oct 13 00:05:40 2008 +0200
+
+ unswitch red and blue
+
+ The previous code assumed a color format of ABGR when naming the
+ variables. The true color format is ARGB. This did not cause any bugs
+ because no functions rely on the order of colors so far. This patch
+ renames the variables just to avoid confusion.
+
+commit f5d4e01c399d6d23fd7e4cfaa26e0b07e2279690
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Oct 8 21:21:58 2008 +0200
+
+ update .gitignore
+
+commit 69dadf231283fadcb117b4d9e799e8633a0e4dab
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Oct 8 21:18:12 2008 +0200
+
+ force alignment of arg pointer in potential SSE users
+

+   Fix for bug 17824
+
+commit 1c5de7b05831b3d66821707276b71974a232f5c7
+Author: David Müller
 <dave.mueller@gmx.ch>
+Date: Tue Sep 23 07:45:51 2008 -0400
+
+   Move _mm_empty() to correct place
+
+   The "fbComposeSetupSSE2()" function is guarding most of its code
+   depending on the capabilities of the CPU, but unfortunately the call
+   to "_mm_empty()" is not part of this code path but executed
+   unconditionally. This results in a "illegal instruction" crash on
+   non-MMX / non-SSE capable CPUs caused by the the "emms" instruction
+   (embedded in "_mm_empty()").
+
+   Fix bug 17729.
+
+commit aadcc7f011004794cf88c126641ef8258183878f
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sun Sep 21 11:01:07 2008 -0400
+
+   Update TODO
+
+commit 9cb60e142bad01fd54cb7e6f3fa2504ddc87a7da
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sun Sep 21 11:00:33 2008 -0400
+
+   Make use of SSE2 blt/fill in more places
+
+commit d69d2705d16c813756acd8a685dc9a28a178423a
+Merge: b5a9002 412b0d5
+Author: Julien Cristau <jcristau@debian.org>
+Date:
  Fri Sep 19 10:29:05 2008 +0200
+
+   Merge tag 'pixman-0.12.0'
+
+   Conflicts:
+
+   configure.ac
+
+commit b5a9002d2e3f0d961bcfe2acee6e9a0f1c583d5d
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Thu Sep 18 19:28:31 2008 -0400
+
+   Inline fetch functions in pixman-transformed.c
+

+ There was significant performance overhead associated with indirect
+ call to the fetch functions, so inline them.
+
+ Also, the old code assumed that if the number of rectangles in the
+ source clip was 1, then the clip was identical to the image
+ boundaries. Fix that by running a full region_contains_point()
+ whenever the source clip is different from pict->common.full_region.
+
+ Based on a patch from Antoine Azar.
+
+commit a57e7bf34a2f312285c8065b8b1328bd5650788a
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Thu Sep 18 11:44:36 2008 -0400
+
+ Fix inner branch code.
+
+ The entire source must be 0
not just the alpha component.
+ Fix some comments too.
+
+commit 54ee41a6603441bf09bbc95c2fec3d0a41c82d0f
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Sep 17 14:38:47 2008 -0400
+
+ Post release version bump
+
+commit 24de3b74f4db3db569e1edface5e5804b58c02b5
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Sep 17 14:03:23 2008 -0400
+
+ Pre-release version bump
+
+commit 7180230d4d87c55dfef1e17a0cc3b125d45aa3a0
+Author: Vladimir Vukicevic <vladimir@slide.(none)>
+Date: Wed Sep 17 16:01:31 2008 -0400
+
+ Add SRC x888x0565 C fast path
+
+commit d0b181f347ef4720d130beee3f03196afbd28aba
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Wed Sep 17 15:53:20 2008 -0400
+
+ Add support for ARMv6 SIMD fastpaths.
+
+commit 412b0d5cbc2c0a5200649cbb0b5e26f8b874437d
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Sep 17 14:03:23 2008 -0400
+

+ Pre-release version bump
+
+commit 3f5d6f90b753175a888f36a93d1e79fdc80d95de
+Author:
Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Sep 17 09:50:57 2008 -0400
+
+ Don't include stdio.h
+
+commit eba402092082bf48072671e04e224589af872acd
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sun Sep 14 14:58:00 2008 -0400
+
+ [sse2] Fix rounding bug in conversion from 565 to 8888
+
+ When converting from 565 to 8888, replicate the topmost bits instead
+ of appending zeros.
+
+commit 6f00d98f87c019849c611d27e9593c5eecfef4c2
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Tue Sep 9 10:49:56 2008 -0400
+
+ Fix for bug 17477.
+
+ over_2x128 was changing the alphaLo and alphaHi arguments, causing
+ stripes.
+
+commit bf76505cc6cc5e54c25eb145748e9e364fb367e9
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sun Sep 7 00:40:09 2008 -0400
+
+ Update TODO
+
+commit da18a5675b3107c9bf99e228d85619d247fa19a6
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sun
Sep 7 00:13:10 2008 -0400
+
+ Extend clip-test to demonstrate a bug in source clipping
+
+commit 00f3d6ef22b5a062323208fd540a17ca65dca42b
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sat Sep 6 23:49:25 2008 -0400
+
+ Fix bug in pixman_image_is_opaque()
+
+ Non-repeating gradient images would be reported as opaque. Also add
+ new test program to test source clipping.

+
+commit d5b4fd7e11c2f2b2e8ab3cb95bef252ce142982e
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sat Sep 6 06:17:32 2008 -0400
+
+   Update RELEASING
+
+commit 35fcdf352a29241f235f2bc7a692c20ad8baf240
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sat Sep 6 06:15:31 2008 -0400
+
+   Bump release
+
+commit 5e7388540f2cd201331cb3d1f616e3c300dbc45f
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sat Sep 6 05:14:18 2008 -0400
+
+   Check for __sun || __sun in pixman.h. Update TODO
+
+   Reported by Bernd Nies.
+
+commit f369d612b3d65529e4b10d8a0b1e015407357d9b
+Author:
 Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Sat Sep 6 04:33:16 2008 -0400
+
+   Use error instead of #error in a couple of other places
+
+commit f921c8c57ffdd6d0afd3d41d50e3565084ebd49c
+Author: Peter O'Gorman <pogma@thewrittenword.com>
+Date: Fri Aug 15 15:00:24 2008 -0500
+
+   Minor portability fixes
+
+   Use AC_C_INLINE to figure out `inline'.
+   IRIX compiler does not exit with a non-zero exit status when it sees #error
+
+commit e2cbe1a0a4db750ab05d804901f155adb312746b
+Author: Frédéric Plourde <frederic.plourde@polymtl.ca>
+Date: Thu Sep 4 16:30:21 2008 -0400
+
+   Win32 build system fixes
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+
+commit ed862f1b2f62ee27884b9b429c54162039f3cb10
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Thu Sep 4 16:21:08 2008 -0400

+
+   Make sure pixman-combine{32,64}.h are disted
+
+commit f9d3f372f907c997abe4c4a65cc4a3dbe0bb41e2
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Aug 24 00:40:16 2008 -0400
+
+   Rename pixman-sse.h pixman-sse2.h
+
+commit fdff58cfa2ed77d2ceb38f48711ac5c91513aab1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Aug 23 23:59:49 2008 -0400
+
+   A few other renamings of SSE->SSE2
+
+commit 9bfa8aaf17b256d90832802dcd386c05b904b97e
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Aug 23 23:54:24 2008 -0400
+
+   Be consistent in naming SSE2 related things SSE2
+
+commit 00841cb314a3b737dc5f492e113f36c19ba336e1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Aug 23 23:42:36 2008 -0400
+
+   Remove use of MMX extensions.
+
+   They were never a big improvement anyway, and now that we have SSE2
+   support, they would only be useful on Pentium IIIs, and only if
+   explicitly enabled, which most distributions couldn't do anyway.
+
+commit 3cd6acfe74dabfbc18af49bed077c2a39b9a742d
+Author: Andre Tupinamba <andrelrt@gmail.com>
+Date:
  Thu Aug 21 14:43:17 2008 -0700
+
+   [sse2] Change pixman-sse to pass __mm128i args as pointers, so as not to confuse MSVC
+
+commit 9b9f7b59e5ce17735157ca9b154e8bc545f5c96b
+Author: Ginn Chen <ginn.chen@sun.com>
+Date: Thu Aug 21 14:21:01 2008 -0700
+
+   Use hidden attribute for private functions when compiling with Sun Studio
+
+   https://bugs.freedesktop.org/show_bug.cgi?id=17183
+
+   Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>

+
+commit e78eee87319e0290025c9d87bffe379bec440587
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Tue Aug 19 11:57:53 2008 -0700
+
+   Add sys/inttypes.h include for AIX
+
+commit cb9d5750582ea93ef1902a5185164088cdaa0140
+Merge: daf1745 dfe1f63
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Thu Jul 31 13:32:59 2008 -0400
+
+   Merge branch 'master' of sandmann@git.freedesktop.org:/git/pixman
+
+commit daf17450607e533dc590b4673c88241862b6b138
+Author: Søren Sandmann Pedersen
 <sandmann@daimi.au.dk>
+Date: Thu Jul 31 13:32:38 2008 -0400
+
+   Bug 16921. MMX and SSE2 intrinsics not enabled when compiling with Intel's icc
+
+   Remove GCC specific inline-growth flags, and use __force_inline__ in
+   pixman-sse2 instead. Based on patch by Matt Turner.
+
+commit dfe1f63f709fc711c15d1be317dc1404d72b3efd
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Jul 25 10:14:29 2008 -0700
+
+   Add depth 30 formats to pixman_format_supported_source.
+
+   Thanks to Julien Cristau for pointing out that these were missing.
+
+commit db3fb5eb605c4e1a6fcb93902389a22fc496151c
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jul 21 22:06:02 2008 -0400
+
+   Don't require GCC 4.2 on x86-64
+
+commit 53fa7133fdf7f5879f10847228f478983c480b79
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jul 21 21:55:55 2008 -0400
+
+   TODO
+
+commit 58ab45b85d1732da7c84a274acdca3bfcf1c36b1
+Author: André Tupinambá <andrelrt@gmail.com>
+Date:

```
  Mon Jul 21 21:53:20 2008 -0400
+
+    Use CopyAreasse2, plus a compatibility fix
+
+commit 51576cda8ba830c0d7dbbeaebb79fbef276f7e2d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:   Fri Jul 18 14:49:35 2008 -0400
+
+    Fix typo in sse2 configure logic
+
+commit 596218e488fc92c5a03d07892015a106dcd541b4
+Author: Frederic Plourde <frederic.plourde@polymtl.ca>
+Date:   Thu Jul 17 13:51:31 2008 -0700
+
+    Win32 Makefile fix
+
+commit f729457da5de4a96ccd220ce71c583cdec971483
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date:   Thu Jul 17 14:13:34 2008 -0400
+
+    Update RELEASING and release targets in Makefile.am
+
+commit 72045eabd57cf793266424c39246b435b655b19f
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date:   Thu Jul 17 14:07:23 2008 -0400
+
+    Post-release version-bump
+
+commit 2a14ecf1cd07e9a3f367ea66a7b10da929ccc06d
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date:   Thu Jul 17 13:38:57 2008 -0400
+
+
 Pre-release version bump
+
+commit 411c0e990f7a96d4e15f2cbbe07d3b50b6a20f95
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date:   Thu Jul 17 13:37:56 2008 -0400
+
+    Make a couple of functions static
+
+commit 96f57c07f24cd6d86c0aad624bd1a16b85f08e04
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date:   Thu Jul 17 13:32:45 2008 -0400
+
+    Speed up fbOver
+
+    Use FbByteMulAdd to operate on two components at a time and force the function
```

+ to be inlined.
+
+commit d4855cd9d028c49c2a12f61c6227579fcb8af5b6
+Author: Jeff Muizelaar <jmuizelaar@mozilla.com>
+Date: Thu Jul 17 13:32:08 2008 -0400
+
+ Comment FbByteMulAdd
+
+commit dcbe4b3f80fb8dc6a83efa7e66a891f8b102608d
+Author: Julien Cristau <jcristau@debian.org>
+Date: Wed Jul 16 22:03:29 2008 +0200
+
+ fix --enable-{mmx,sse2,vmx}
+
+ If --enable-foo is used, don't treat it as --disable-foo, and
+ error out if the appropriate compiler support isn't detected.
+
+commit e21f00db50c30e80c8969fbf63982aeb7434dc1d
+Author:
Damien Carbery <damien.carbery@sun.com>
+Date: Wed Jul 16 15:47:38 2008 -0400
+
+ Add pixman-1-uninstalled.pc file
+
+ Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit 1570746350baf82d36aeb7ea1702350700b795d7
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Jul 16 15:19:17 2008 -0400
+
+ Use -no-undefined -- fixes bug 15927
+
+commit 99fead412e7602daf193035831b952e252dac0e1
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Jul 16 15:07:30 2008 -0400
+
+ Use <inttypes.h> on most types of Unix.
+
+ Fix for bug 15560.
+
+commit c5bb4ab8fcb784d479c71996f2ff081374741d43
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Jul 16 14:56:48 2008 -0400
+
+ Update TODO
+
+commit 2070f10db927a97d7d38024e607093f5a6e00291
+Author: Søren Sandmann <sandmann@redhat.com>

+Date: Wed Jul 16 14:30:46 2008 -0400
+
+   Remove unused pixman-combine.c
+
+commit 9d54568d5f93701313fdbb49c1ef9dc79fe5850c
+Author:
 André Tupinambá <andrelrt@gmail.com>
+Date: Wed Jul 16 14:29:29 2008 -0400
+
+   Fix SSE2 bug where x888 pixels were treated as 8888
+
+commit 7dfd023e94d9ab5940d7062c2e5cde11ab02f43e
+Author: Benjamin Otte <otte@gnome.org>
+Date: Wed Jul 16 20:41:02 2008 +0200
+
+   fix Altivec detection
+
+   the old code used to cause infinite looping on G3 machines.
+
+commit 0a92401678286eb438fe24979fd032efba540a0a
+Author: Behdad Esfahbod <behdad@behdad.org>
+Date: Tue Jul 15 16:49:32 2008 -0700
+
+   Fix fbCompositeSrc_x888xnx8888mmx to properly ignore source alpha
+
+commit 687176023caf53f2fe234827d152f270048b1cd3
+Author: Julien Cristau <jcristau@debian.org>
+Date: Tue Jul 15 16:59:21 2008 +0200
+
+   make --{en,dis}able-gtk work correctly
+
+   --enable-gtk had the same effect as --disable-gtk.
+   Now we check for it by default, and error out if we can't
+   find it and it was explicitly enabled.
+
+commit 9d97716d2fd91d5611a5e7a7b29b38887b672e9f
+Author: André Tupinambá
 <andrelrt@gmail.com>
+Date: Tue Jul 8 14:15:27 2008 -0400
+
+   Fix bug 16310 in the SSE2 fast path in function fbCompositeSolidMask_nx8888x0565Csse2
+
+commit 47b95be38ae0ebc61963c0b3b4dddb240a59c18a
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Tue Jul 8 14:10:56 2008 -0400
+
+   Update TODO
+

+commit eb53d111bd8651cd00c1b728b09e8be09b8482f7
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Wed Jun 25 17:55:28 2008 -0700
+
+   Add a lossy 32-bit generic pixel fetch function for wide surfaces.
+
+   The transformed fetch path currently only works at 32-bit precision. Until a
+   wide version of that function is added, we need to have a path to perform a
+   wide FetchPixel and then contract it down to a8r8g8b8.
+
+   Also, use the right format when expanding the result in fbFetchTransformed64.
+   fbFetchTransformed returns a8r8g8b8 results.
+
+commit 3c43b869f3821495978c61b9195f0b0e9e9e1245
+Author: Søren Sandmann <sandmann@redhat.com>
+Date:
  Fri Jun 27 01:11:30 2008 -0400
+
+   Unexport or delete various functions
+
+   - Delete pixman_region_append()
+   - Delete pixman_region_empty()
+   - Make pixman_region_validate() static and don't export it.
+
+   Reported by Julien Cristau.
+
+commit 36b05f2cac7fa28e31131ca0d6b8b133ccd95ab8
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Jun 27 01:05:30 2008 -0400
+
+   Only export the 16 bit version of pixman_region_set_static_pointers()
+
+commit ab4d45806aacf6208820af07b42852c9e4c89fff
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Jun 25 09:46:12 2008 -0400
+
+   Update versioning documentation
+
+commit a3c12f4ccfda470574bfe8b7796c0b90237dabe0
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Jun 25 09:36:13 2008 -0400
+
+   Update release instructions
+
+commit ca6edbee41e2e4bd18e3615a86bae441822b90e3
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Jun 25 09:24:00 2008 -0400
+

+
   Explicitly use my GPG key for signing.
+
+commit c48e3bc5ccf3a2f0aa4cadbaa4a0ae968a5d5a91
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Wed Jun 25 09:16:09 2008 -0400
+
+   Post-release version bump
+
+commit d8e5ff20f12c52a32dcf0543ab436eb7194b794c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 25 07:58:21 2008 -0400
+
+   Pre-release version bump
+
+commit 4a9df4be7e384cf18e3d7a65d1e0023d2e2a280f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 22 13:44:23 2008 -0400
+
+   TODO
+
+commit a766b62880108f278478888f5167a5fbf2819a97
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 22 13:42:21 2008 -0400
+
+   Add configure time options to disable mmx/sse2/vmx
+
+commit 02268903e4311709744c11e495f9b17f171ec5e9
+Author: David Sharp <whereami@gmail.com>
+Date: Thu Jun 19 20:23:33 2008 -0700
+
+   pixman-sse.c: silence pointer-cast compiler warnings.
+
+   Cast pointers to words of the
 same size, not 32-bits.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 534e65d54831018b47c169932a04224e5ba53cb8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 13 16:16:59 2008 -0400
+
+   Update TODO
+
+commit eb2d95de98683a387153f010077ad9c3c3b1b01d
+Author: Luo Jinghua <sunmoon1997@gmail.com>
+Date: Sat Jun 14 09:07:22 2008 +0800
+

+   Fix implicit declaration of function 'free'.
+
+   Otherwise pointer will be truncated on 64bit arch and your programs will crash.
+
+commit 29d144712e558aaeb49f4384028dd669d76a410b
+Author: Maximilian Grothusmann <maxi@own-hero.net>
+Date: Fri Jun 13 12:44:50 2008 -0700
+
+   Fix memory leak by freeing boxes{16,32}.
+
+   After calling pixman_region_init_rects() or
+   pixman_region32_init_rects(), boxes{16,32} were not freed before
+   returning. Fixes bug 16312.
+
+commit 5d32519316b40b35113c6df9e15d955a16709ba2
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri
 Jun 13 09:52:53 2008 -0700
+
+   Use pixman_malloc_ab instead of plain malloc for the fbStore64_generic scratch buffer.
+
+commit b1c70c4e6435d7f15751111828c381feb1d139cf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 13 00:25:45 2008 -0400
+
+   Move PIXMAN_FORMAT_16BPC to pixman-private.h
+
+commit 7fa966df0ee781fa486715710f389b148c11d36e
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Jun 6 23:02:51 2008 -0700
+
+   Decide based on the image formats whether we need wide compositing.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 7cb735c9c0fa55ae1f4d8d13da9f33e3da2ae8fe
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Jun 6 19:40:25 2008 -0700
+
+   Take the source format into account in pixman_expand.
+
+   Extract the original bits of the source image for each component and then
+   replicate up to 16 bits to fill the wide components. Make sure to hard-code the
+   alpha value to 1 if the
 source format didn't have alpha.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+

+commit c0d98e96605c6d03f4b02f337f2f5827165bb092
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Jun 6 18:51:48 2008 -0700
+
+   Make expansion and contraction loops clearer.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit fc0b28bf6af81428b7ac045614eea97fbf9c4a70
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Jun 6 18:05:15 2008 -0700
+
+   Add wide source picture, external alpha, and transformed image routines.
+
+   The wide external alpha path should work correctly with wide formats. The wide
+   transformed fetch code for now just does a 32-bit fetch and then expands, which
+   will lose precision. Source pictures, for now, are evaluated at depth 32 and
+   then are expanded to depth 64. We could get higher precision by evaluating them
+   directly at depth 64, but this should be good enough for now.
+

+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 42a3a2d6fc8d3e521c6914ff8fb89f1fbc673e28
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Jun 6 15:45:17 2008 -0700
+
+   Add wide fetch/store functions.
+
+   Use the narrow ones and expand/contract where necessary. Still need wide paths
+   for fancy pictures, but this gets the basic stuff working.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 7591d3f1d7e0884f9362018edf720724095cf380
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Jun 6 15:30:52 2008 -0700
+
+   Add expand and contract functions to convert between ARGB8 and ARGB16.
+
+   The expansion function isn't quite correct, but gives reasonable results.
+
+   Signed-off-by: Søren Sandmann Pedersen <sandmann@redhat.com>
+
+commit bae5db893f20eaf9c8ec56057617a8ce800cce48
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun 9 13:06:50 2008 -0400
+

+   Post-release
 version bump
+
+commit 88e02d36792d3ad2615a775c9d21136c760087ef
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun 9 12:32:56 2008 -0400
+
+   Pre-release version bump
+
+commit fe43a2c1638ee75ca6bbc437a59461cc5c2b6f46
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun 9 12:28:05 2008 -0400
+
+   Add back prototypes for pixman_version() and pixman_version_string() to pixman.h
+
+commit fd380c7764c9cbc05f070b178a4b38b342503471
+Author: Julien Cristau <jcristau@debian.org>
+Date: Mon Jun 9 12:01:37 2008 +0200
+
+   Add a couple more missing PIXMAN_EXPORTs
+
+commit f8f3b454a8dc4f91b4aff0e3c7ab28d65383ec8f
+Author: Julien Cristau <jcristau@debian.org>
+Date: Mon Jun 9 11:53:23 2008 +0200
+
+   Add PIXMAN_EXPORT for pixman_region_equal
+
+   This used to be exported, so removing the export broke ABI.
+
+commit 6e8f785ae7b629f5f81627fdb61f07d99df0b9ba
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun
 9 02:43:37 2008 -0400
+
+   Post-release version bump
+
+commit 26b486b9a9e599a5b45a73f8b3ec72f9a3560cfb
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun 9 01:59:56 2008 -0400
+
+   Bump version number
+
+commit 95e749168d08cd35e151e612404c9318dcb0df9e
+Merge: f7f5da7 ae1f016
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun 9 01:57:26 2008 -0400
+
+   Merge region32 branch; fix conflicts

+
+commit ae1f016d404d323158072499f83185d4e83eaedb
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun 9 01:53:03 2008 -0400
+
+   Unbump version number
+
+commit f7f5da7fc446c3cadb3f82a2ddc6ae57f4c4b795
+Author: Søren Sandmann Pedersen <sandmann@daimi.au.dk>
+Date: Mon Jun 9 01:52:36 2008 -0400
+
+   Unbump version number; remove file added to EXTRA_DIST
+
+commit e84db894933b25ef9ab83a6c15a0521e15d61bae
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Jun 9 01:29:14 2008 -0400
+
+   Bump version number and make it
 distcheck
+
+commit 7145d6dbdab79930ed923ae9551501127be28864
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Jun 9 01:29:14 2008 -0400
+
+   Bump version number and make it distcheck
+
+commit a76826f19893a0575c0e16079fc1ec6d33171594
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Jun 9 01:03:15 2008 -0400
+
+   Fix uses of short variables in pixman-region.c
+
+commit 85bad33380b7b78bdd6a7238c1439bcc42e28231
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Jun 9 00:51:28 2008 -0400
+
+   Add infinite loop test
+
+commit 62e9b4d6cfcbc10046539b8e9643691bb02bea39
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Jun 9 00:00:07 2008 -0400
+
+   Export pixman_compute_composite_region32() and use it in walk_region
+
+commit 57819ae3c219252db98df5eefa36499a6b77970c
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 23:53:35 2008 -0400
+

+   Fix bug in pixman_compute_composite_region()
+
+   It was using the output region as the
 input. Add and use
+   pixman_region16_copy_from_region32().
+
+commit 664b891aac50642d6d2ab6c482f4765029ae9b91
+Merge: 0b4c6dc 2b91152
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 23:39:29 2008 -0400
+
+   Merge branch 'master' into region32
+
+commit 2b9115293e5fca70ca9ffe44ef74c80885dcedbb
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 23:39:03 2008 -0400
+
+   Call _mm_empty() at the end of fbComposeSetupSSE
+
+commit 0b4c6dcefd63a43aa9bb6556017e259589116522
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 22:48:59 2008 -0400
+
+   Add pixman_image_set_clip_region32
+
+commit 703f82cd02f5224632b4b7f7f3f072067fa4f76d
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 22:20:44 2008 -0400
+
+   Use 32 bit regions internally
+
+commit de150bf82fbe0e346fa38eae10a5bd43538bb3d9
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 22:07:46 2008 -0400
+
+   Add pixman_region32_copy_from_region16
+
+commit
 e30f7e2eb56b53667ee83e2cad942f171a9486a0
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 21:43:01 2008 -0400
+
+   Some formatting fixing
+
+commit cb7cc369f500a7828dc3c9935d8d82af47573df5
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 21:41:54 2008 -0400
+

+   Move all the PIXMAN_EXPORT into .c files
+
+commit 890f1a4280af4c7b8d8913ba592a9dd617482463
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 21:13:52 2008 -0400
+
+   Move PIXMAN_EXPORT into pixman-region.c
+
+commit 7a32c864e95d35e13d5473f5519639d91f62e20a
+Merge: 81369a4 1248418
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 20:14:52 2008 -0400
+
+   Merge branch 'master' into region32
+
+commit 1248418854b0e6e2f7fa8c2760a05b6604d3ded7
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 20:01:37 2008 -0400
+
+   Fix forgotten use of pixman-combine.h
+
+commit fb8f17fdf1eaec4ab8edba1486bfa83c0965d738
+Merge: 9267b0b 1063933
+Author: Søren Sandmann
 <sandmann@redhat.com>
+Date: Sun Jun 8 19:55:43 2008 -0400
+
+   Merge branch 'vmx'
+
+commit 1063933bacb8b5d06b42b7b06a116339ce7c1f0c
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:55:35 2008 -0400
+
+   Rename pixman-combine.h -> pixman-combin32.h
+
+commit 81369a4c4f09bc6cceef173947df4c9a78952c7a
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:32:15 2008 -0400
+
+   Fix up types in pixman32-region.c
+
+commit 4cf2b696266214482dad6e40184b74e1161e8ea7
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:31:31 2008 -0400
+
+   Add prototypes for 32 bit region methods
+
+commit 7d0c507b084e78217145ab82c35d579e5c8c26db

+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:31:04 2008 -0400
+
+   Add pixman-region32.c
+
+commit c22df027d6b9c9957e73ea9e34f14d504deb9d91
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:24:28 2008 -0400
+
+   Add prefixes to global primitive regions
+
+commit
 cab6a175ec4a1b29b51060293aacaf2cf2f987a0
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:20:27 2008 -0400
+
+   Delete more unused stuff
+
+commit 9395f08d6e6316ee853a976b806e57821e13991e
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:16:55 2008 -0400
+
+   Delete more unused stuff
+
+commit b00fcb6d627370930daec9d1e9601af7ce28944c
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:15:41 2008 -0400
+
+   More data types; remove unused stuff
+
+commit 4bdcd3bdb1223d5e611af9721e2eceb7e867b138
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:12:29 2008 -0400
+
+   Add point_type_t
+
+commit abf6b6ca6ce8f54cb8ba9d34570d4cdf0537bbd2
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:11:24 2008 -0400
+
+   Replace pixman_box16_t with box_type_t
+
+commit 68ccaa06751e76b9d9c70a7c0b8e9b22cf7d6f62
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:07:30 2008 -0400
+
+   Add pixman-region16.c;

compile that instead of pixman-region.c
+
+commit 149477457c9463e22350c15ccfca5ddf8a78e7af
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 8 19:05:43 2008 -0400
+
+   macroize pixman-region.c
+
+commit 567b4c255050ee3cc2dd0c03fb091d1f981332eb
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sat Jun 7 19:38:01 2008 +0200
+
+   Use sigaction instead of signal to restore the previous handler
+
+commit 7ef19261ee5bb4c78ca55533c67e1f267faed61e
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sat Jun 7 19:28:10 2008 +0200
+
+   Use combine macros from the generated header
+
+commit 795fd8a4c0f9417fb92beaff8595064c573b7652
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sat Jun 7 19:25:09 2008 +0200
+
+   Split combine.inc generated files in source and header
+
+commit 9267b0bb549044591f28124a86e169b2235339b6
+Author: Dimitrios Apostolou <jimis@gmx.net>
+Date: Tue Jun 3 16:33:58 2008 -0400
+
+   Fix compilation on SGI
+
+   Signed-off-by: Søren
 Sandmann <sandmann@redhat.com>
+
+commit 8ef3f49a9580fb148c2e5f567c0aafddd4b0f136
+Merge: 27b753c 9a6d3a1
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sun Jun 1 16:37:52 2008 +0200
+
+   Fixup
+
+commit 9a6d3a1dcf89fc04f71a9dfed1aeeda1e3fb83bc
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri May 2 17:33:17 2008 -0700
+
+   Fix wide alpha fetch macro.
+

+   Signed-off-by: Soren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 86ed05b0f93505c136fb279fa4529596fc7c682a
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Wed Apr 23 17:30:14 2008 -0700
+
+   Use wide compositing functions when wide == 1.
+
+   Signed-off-by: Soren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 4e2d2546b79354a1accff8614d50eb8f75a15c98
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Tue Apr 15 13:58:27 2008 -0700
+
+   Add infrastructure for allocating wide scanline buffers. Not yet used.
+
+   Signed-off-by: Soren Sandmann Pedersen <sandmann@redhat.com>
+
+commit
 598334a15723dc3857d1e932c17365a1f8c5f094
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Tue Apr 15 13:13:46 2008 -0700
+
+   Split fetch/fetchPixel/store proc types into 32-bit and 64-bit versions.
+
+   Signed-off-by: Soren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 4a7e1676fd381bda53ece2f13204fbe568e07b0d
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Apr 4 14:43:48 2008 -0700
+
+   Move the scanline buffer allocation logic into pixman_composite_rect_general.
+
+   Pass the src, mask, and dest buffers into pixman_composite_rect_general_* as
+   void* pointers since those functions should not do pointer arithmetic.
+
+   Signed-off-by: Soren Sandmann Pedersen <sandmann@redhat.com>
+
+commit 30bdbbed073750efa0a0c1e3f68925196e118953
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu May 15 01:07:59 2008 -0400
+
+   Update TODO
+
+commit d71bfc7777a48edfeb0aee0e3da97ac700a3dc90
+Author: Søren Sandmann <sandmann@redhat.com>
+Date:

Thu May 15 01:00:28 2008 -0400
+
+ Work around GCC bug causing crashes in Mozilla with SSE2
+
+ When using SSE2 intrinsics, gcc assumes that the stack is 16 byte
+ aligned. Unfortunately some code, such as Mozilla and Mono contain
+ code that aligns the stack to 4 bytes.
+
+ The __force_align_arg_pointer__ makes gcc generate a prologue that
+ realigns the stack pointer to 16 bytes. Fix bug 15693.
+
+commit 1f275b4bdc28b121f4afd3cfd2df187bebedf35d
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed May 7 22:27:56 2008 -0400
+
+ Add support for 8 bit fills in pixman_fill_mmx()
+
+commit a56df9149d2af0414ba8311b413dbc2f01c94427
+Author: Richard Hult <richard@imendio.com>
+Date: Sat May 3 15:03:00 2008 -0400
+
+ Add --disable-gtk switch to configure
+
+ Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit 9aa1c4e5d2db3793ae6e301496fe39475de84382
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri May 2 21:10:07 2008
-0400
+
+ Update TODO
+
+commit 1e1c8a1f52183edecfea346257468681d6a88c36
+Author: Oswald Buddenhagen <ossi@kde.org>
+Date: Thu May 1 10:50:58 2008 +0200
+
+ fix pixman compile with srcdir != builddir
+
+ Signed-off-by: Alan Coopersmith <alan.coopersmith@sun.com>
+
+commit 510ee5d8c23e2d9133dc83634e15b7660f411a1f
+Author: Thomas Zimmermann <kuhundbaer@web.de>
+Date: Fri Apr 25 22:13:24 2008 -0400
+
+ Remove trailing comma from enum (bug 15364)
+
+commit 3cea659d72bc3429a8766e63c66346e76e61c9b5
+Author: Alan Coopersmith <alan.coopersmith@sun.com>

+Date: Thu Apr 24 18:10:56 2008 -0700
+
+   Fix pixman/Makefile.am to work with Solaris make
+
+commit 27b753c9deabe5ac775021abfae98a6a1830cfc2
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Thu Apr 24 01:08:29 2008 +0200
+
+   Remove unused macro
+
+commit 584118fb6c15d695b6a203c2df51411958957880
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Thu Apr 24 01:06:38 2008 +0200
+
+   Remove VMX from CPUFeatures,
 ppc isn't using it at all
+
+commit fc96121afd5d8451c9d8ba8a693e589d1999d131
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Thu Apr 24 01:03:08 2008 +0200
+
+   Simplify cpu feature check
+
+commit 08b317a5f519978cfabebd75d5595b19fc1d1425
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Thu Apr 24 00:41:16 2008 +0200
+
+   Refactor path selection
+
+commit 083cadd4c7d1270b0ee9f0365327b872898d1561
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Thu Apr 24 00:36:51 2008 +0200
+
+   Force inlining
+
+commit 92ef26dfed3337831dd5156bfe0d20b132a26a29
+Author: André Tupinambá <andrelrt@gmail.com>
+Date: Wed Apr 23 00:18:39 2008 -0400
+
+   Add SSE2 implementations of many compositing operations.
+
+commit 8e68544e0d8cc7af24fb8b298fd6afd47c620136
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sat Apr 12 13:16:46 2008 +0200
+
+   Unbreak vmx pixman
+
+commit 1ec7bd2cb2d02caca06742b0091f293d29d95a44

+Merge: e63bf15 5388222
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date:
  Sat Apr 12 09:53:24 2008 +0200
+
+   Merge branch 'master' into vmx
+
+   Conflicts:
+
+   pixman/pixman-pict.c
+
+commit 53882228c9bbd50609e2858502b9bc087ca76903
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Apr 12 00:22:35 2008 -0400
+
+   Simplify handling compiler handling in MMX code
+
+   Instead of using the parameters --param inline-unit-growth=10000 and
+   --param large-function-growth=10000", just make the inline functions
+   __always_inline__.
+
+   Also support Intel's compiler in pixman-mmx.c.
+
+   Based on a patch by Serhat <ubunturk@gmail.com>
+
+commit 9f76747adec7ea00e31dd817427c1ed1bfa86aa8
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Thu Apr 3 17:27:08 2008 -0700
+
+   Use a macro to append _accessors to things.
+
+   Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit a7065162aff9d1de9fc3db9756e4e76f6b8d063b
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Tue Apr 1 17:26:03 2008 -0700
+
+
   Generate 64-bit combining functions.
+
+   Copy some macros from pixman-private.h into combine.inc and update them to
+   generate 64-bit versions as appropriate. Add a rule to generate
+   pixman-combine64.c and add it to the build.
+
+   Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit 48521e6fe4378f9cc49d2dfb8d87490e65267a49
+Author: Aaron Plattner <aplattner@nvidia.com>

+Date: Tue Apr 1 16:31:26 2008 -0700
+
+   Replace hardcoded numbers and uint*_t in combine.inc.
+
+   The masks and shifts have been replaced with preprocessor defines generated by
+   combine.pl. The uint*_t types have been replaced with comp4_t, comp2_t, and
+   comp1_t depending on how many components the value is supposed to hold.
+
+   Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit e0e5c4b72937728d0b36b1077d94ce92a2374c9a
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Mon Mar 31 16:42:53 2008 -0700
+
+   Tack 32 onto the ends of the combining
 function types.
+
+   Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit f88519ed3fed42e41aa5623540466d0bee1a887b
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Mon Mar 31 16:33:09 2008 -0700
+
+   Move combining routines into combine.inc and add a Perl rule to generate it.
+
+   This will eventually be used to search & replace types and mask/shift
+   calculations to generate a wide version of these functions.
+
+   Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit 30746b1e1e5101fd1502c676e777e27953772f75
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Mon Mar 31 16:09:44 2008 -0700
+
+   Move combining macros into pixman-combine.c.
+
+   Signed-off-by: Søren Sandmann <sandmann@redhat.com>
+
+commit 1ae751215e255adecacad960b5bc98ff86039a07
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Apr 9 21:39:29 2008 -0400
+
+   Require GCC 3.4 for SSE and SSE2.
+
+   Also include <emmintrin.h> in the SSE2 test
 and use SSE_FLAGS rather than MMX_FLAGS
+
+   Reported by Dave Yeo.

+
+commit a1f51cb09ead3e0007c12e98ce74948a92e80ec5
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Apr 8 21:58:00 2008 -0400
+
+   Fix bug in FbStore_b2g3r3
+
+commit 0b207ae11065c740f2644a89fc13207a5343554e
+Author: Antoine Azar <cairo@antoineazar.com>
+Date: Sun Apr 6 10:56:53 2008 -0400
+
+   Optimize operators based on source or dest opacity.
+
+   Check if we can replace our operator by a simpler one if the src or
+   dest are opaque The output operator should be mathematically
+   equivalent to the source.
+
+commit 2976e690410d10b916014effe5d1842d0c8a7908
+Author: Julien Cristau <jcristau@debian.org>
+Date: Sun Apr 6 17:12:12 2008 +0200
+
+   Revert "pixman-version.h is generated, don't distribute it"
+
+   This reverts commit 4fd8910ea499eb484e29c44dbee7dbc029656e9c.
+
+commit 4fd8910ea499eb484e29c44dbee7dbc029656e9c
+Author: Julien Cristau <jcristau@debian.org>
+Date: Fri
 Apr 4 21:36:02 2008 +0200
+
+   pixman-version.h is generated, don't distribute it
+
+commit 4cde0886b52c82b792e8fbf2248bf8ff9aa079fa
+Author: Frederic Plourde <frederic.plourde@polymtl.ca>
+Date: Thu Apr 3 13:52:54 2008 -0700
+
+   Add CopyAreammx fast path for argb32 SRC xrgb32 and abgr32 SRC xbgr32
+
+commit f45b331f7bb7d7effe279159d8c899952b52a270
+Author: Julien Cristau <jcristau@debian.org>
+Date: Sun Mar 30 20:53:42 2008 +0200
+
+   Remove prototype for nonexistent pixman_image_set_filter_params
+
+commit a331519b865d157ac5fec231fda02ee74ba1ede1
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Mar 28 12:26:18 2008 -0700
+

+   Get rid of pixman_composeFunctions_accessors.
+
+   The combining functions operate on scratch memory, so they don't need the access
+   wrappers. There's also no reason not to use the MMX combining functions in the
+   accessor path.
+
+commit 0c3547bad41e1a5b12c0ffaa1c106043399dc3fc
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date:
  Fri Mar 28 12:16:07 2008 -0700
+
+   Fix test build when srcdir != builddir.
+
+   The tests were including pixman.h, but pixman.h couldn't find pixman-version.h
+   because it was in $(top_builddir)/pixman rather than $(top_srcdir)/pixman.
+
+commit cd3799317fced697e4bc729c3ea8d42ed7edf526
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Mar 28 05:23:34 2008 -0400
+
+   Post-release version bump
+
+commit 92b675db8d3ef44c3c87110443b15a68a871cf7b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Mar 27 10:08:35 2008 -0400
+
+   Fix log generation
+
+commit 0c33317f59b93f5cab348619b1c38a5dce97de94
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Mar 27 10:07:11 2008 -0400
+
+   Bump version to 0.10.0.
+
+   Also a bunch of changes to the release make targets
+
+commit 0637671959b56bba93f39208c825c0d97e2f90df
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Thu Mar 27 08:37:29 2008 -0400
+
+
   Make username configurable; add Makefile.win32 to EXTRA_DIST
+
+commit 10a227ed9311529cd98cb8b3aa1b8d48dad8b517
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Wed Mar 26 16:10:43 2008 -0700
+
+   Fix up unsigned long long/ullong usage

+
+   A few stray "unsigned long long"s were in place, along with
+   a ullong typedef outside of the appropriate ifdef.
+
+commit eec44d371f278ee1f7de03d1a0fcaa17941c8a00
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Mar 26 02:20:42 2008 -0400
+
+   Make it distcheck
+
+commit 03b9c143770566ebcbee7ca3abde223529c07ce9
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Mar 26 01:49:56 2008 -0400
+
+   Move version functions from pixman-version.c into pixman-utils.c.
+
+   Delete pixman-version.c
+
+commit cb7fceabb9da30d03b29f9ff946a3793a1b9ebab
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Mar 25 23:11:19 2008 -0400
+
+   Make pixman-version.h print an error if you include it by itself
+
+commit
 0982adf0794507899f642bdb55f3a979d6cc486e
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Mar 25 23:07:03 2008 -0400
+
+   Update TODO
+
+commit 3e700366ef82f0ecd28014cf873ffd292ad9cdc5
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Mar 25 19:43:40 2008 -0700
+
+   Eliminate duplicate case values that were breaking the compilation.
+
+commit 7fa668f4ac4be756d097b29240bf15bb71ae6db9
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Mar 25 13:12:29 2008 -0700
+
+   New API: pixman_format_supported_destination and pixman_format_supported_source
+
+   These functions allow for callers to use the PIXMAN_FORMAT macro to
+   construct a format code and to then determine if the resulting code
+   is supported by pixman for either destination or source surfaces.
+
+commit bd2a53fc4ece82321f139cdf3276a7ceb871f895

+Author: Carl Worth <cworth@cworth.org>
+Date: Mon Mar 24 14:51:09 2008 -0700
+
+   Add pixman_version function and related macros
+
+   The complete
 new API here makes available compile-tim version checks:
+
+   PIXMAN_VERSION
+   PIXMAN_VERSION_STRING
+   PIXMAN_VERSION_ENCODE
+
+   as well as run-time version checks:
+
+   pixman_version()
+   pixman_version_string()
+
+commit b078cb3250b63b1c942b93738557af7401e42c9b
+Author: Carl Worth <cworth@cworth.org>
+Date: Mon Mar 24 12:00:46 2008 -0700
+
+   Increment pixman version to 0.9.7
+
+   This represents the in-development state, (so that the next release
+   will be 0.9.8 with an even-number micro component).
+
+commit 0c2c891c8f76d1fdb6efe763d35cd5bf75b9a9a7
+Author: Carl Worth <cworth@cworth.org>
+Date: Mon Mar 24 11:58:33 2008 -0700
+
+   Document incrementing the micro version immediately after a release
+
+   This is a cairo-like scheme where the version number is incremented
+   both immediately before and immediately after a release.
+
+commit 11cfd5d1bb9d1ea89f9d82bf6f447e577d673816
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date:
  Tue Mar 25 11:45:56 2008 -0700
+
+   Only define pixman_have_sse() as function if USE_SSE2 is also defined
+
+   .. otherwise it's already a macro evaluating to FALSE.
+
+commit e63bf1554b4adf9e687ec86213a97caab2218a77
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sun Mar 23 16:12:31 2008 +0100
+

+   Make configure message alike the mmx/sse/sse2 ones
+
+commit dcc530178050522705e70ff2f09b9da2b358ac01
+Merge: 550e5f5 29a8ae4
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sun Mar 23 16:04:26 2008 +0100
+
+   Update vmx
+
+commit 550e5f54abe4f3f0b6fcd278c3b4533036276e3f
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sat Mar 22 11:28:48 2008 +0100
+
+   update patch
+
+commit 4f33f454c6dbaf356d20cee8d35fdf02f9a0317d
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Mar 21 18:59:45 2008 -0700
+
+   Move fbFetchTransformed and friends into pixman-transformed.c.
+
+commit 90ff2bfbe5fd7f1e3aa5273e0fb72ae05e1e88c1
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date:
  Fri Mar 21 18:18:50 2008 -0700
+
+   Move pixmanFetchSourcePict and friends into pixman-source.c.
+
+commit 76febfcd20c962a467d08c2ee9be612216ffa030
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Mar 21 18:06:54 2008 -0700
+
+   Move fetch, fetchPixel, and store routines into pixman-access.c.
+
+commit d6143b8634e2d923456b3198e692ccb463d59952
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Mar 21 17:13:32 2008 -0700
+
+   Get rid of fbPrepareAccess and fbFinishAccess, since the former was unused and neither one did anything anyway.
+
+commit 9fe5913c34a71d83a497e0d2de8db50522db75ee
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Fri Mar 21 14:15:34 2008 -0700
+
+   Rename pixman-compose-operators.c to pixman-combine.c and fix the build.
+
+   Add pixman-combine.c to the source list. Make the functions in it static. Call

+ fbCombineInU through the PIXMAN_COMPOSE_FUNCTIONS table. Declare the functions
+ tables
as extern in pixman-private.h.
+
+commit d47a686d91d28d996fc7326ada0d2f0c3a305852
+Author: Antoine Azar <cairo@antoineazar.com>
+Date: Thu Feb 21 03:38:46 2008 -0500
+
+ [PATCH] Moved all composition operators from pixman-compose.c to their own c/h file
+
+ Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
+
+commit 29a8ae4185bf65dbafe0dd7aff3b83bef1bbffbc
+Author: Kamalneet Singh <kamalneet.s@samsung.com>
+Date: Wed Mar 19 10:02:11 2008 -0400
+
+ Fix computation of x_offset in pixman_add_traps.
+
+commit aa9907b237062dade232297aed2269730a988e29
+Author: nmiell@gmail.com <nmiell@gmail.com>
+Date: Fri Mar 14 22:23:19 2008 -0700
+
+ Fix the SSE related AMD64 build breakage
+
+ The introduction of pixman_have_sse() copied the #ifdef __amd64__
+ found around pixman_have_mmx() in pixman-mmx.c but didn't include the
+ equivalents of the macros in pixman-mmx.h. As a result, the AMD64 link
+ fails because the pixman_have_sse() function doesn't exist.
+

+ I also introduced header inclusion guards to pixman-mmx.h and
+ pixman-sse.h while I was at it.
+
+commit 6449782f8a4bea0274a30f86d56214c2c73c0303
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Mar 14 19:24:28 2008 -0400
+
+ Fix typo; include pixman-sse.h
+
+commit 917e73385f8769f84da453df99d4e8e0dccc5b23
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Mar 14 19:20:34 2008 -0400
+
+ Require MMX and MMX_Extensions for SSE. Various code style fixes.
+
+commit 6cb327be1f4e64d09bd9fa8d444afda17ed58da4
+Author: Rodrigo Kumpera <kumpera@gmail.com>
+Date: Fri Mar 14 19:11:17 2008 -0400

+
+   Add build system support for SSE2.
+
+commit ddfb69ae8778ac4b3050ddebf499c137ad6eef7b
+Author: Frederic Plourde <frederic.plourde@polymtl.ca>
+Date: Thu Mar 13 14:24:08 2008 -0700
+
+   Enable/fix MMX compilation under Win32 with Visual Studio
+
+commit f2d8a5caa63596739b4dc47c00daaaafd9f522e2
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Mar 10
 23:41:52 2008 -0400
+
+   Add rounding epsilon for NEAREST filter after transformation, not before.
+
+   For nearest filtering, the transformed location must be rounded to the
+   nearest sample. For locations that precisely in the middle between two
+   samples, we round down by adding -epsilon to the coordinates.
+
+   Before, we would do this on untransformed coordinates. This patch
+   changes it to happen after transformation. It also clarifies the
+   difference between sample locations and rounding.
+
+   Reported by Robert O'Callahan.
+
+commit 5bcde57da704000f0fbb52291d01c7f3c0dc8655
+Author: Antoine Azar <cairo@antoineazar.com>
+Date: Wed Mar 5 15:27:11 2008 -0800
+
+   Fixed transformed/untransformed cases of extend_pad by using fbfetchtransformed in all cases and making sure no fast path can be taken.
+
+commit 476f10237e432321d7f456b4df9fd206b78d8827
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Feb 29 18:32:44 2008 -0500
+
+   Update
 TODO
+
+commit 8533dcbccc142621027469e62dd84030d4248eec
+Author: Antoine Azar <cairo@antoineazar.com>
+Date: Tue Feb 26 16:36:22 2008 -0500
+
+   Fix EXTEND_PAD for untransformed sources
+
+commit 77c43c6c49511b203fb098a78d38bb4cef7c2cfd
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Mon Feb 25 20:12:42 2008 -0500
+
+   Fix another NULL dereference in pixman-compose.c, reported by Joel
+   Bosveld.
+
+   Update TODO.
+
+commit 8d79c48126398aa7b31e9bb9e25af9d231075604
+Author: Bertram Felgenhauer <int-e@gmx.de>
+Date: Thu Feb 14 16:40:54 2008 +0100
+
+   Fix a NULL pointer dereference in fbFetchFromNRectangles().
+   As pointed out by Soeren Sandmann Pedersen, calling
+   pixman_region_contains_point with a NULL box argument leads to a crash.
+   Also fix a few warnings.
+
+commit 435086f6a437d8e6b707fad7c9bb30b91ff80684
+Author: Antoine Azar <cairo@antoineazar.com>
+Date: Tue Jan 29 11:53:03 2008 +0100
+
+   Refactor fbFetchTransformed()
+
+commit e95638c629334151e27633cc1c476ea582d766ec
+Author:
 Vladimir Vukicevic <vladimir@pobox.com>
+Date: Sun Jan 27 14:49:12 2008 -0800
+
+   Include only pixman-private.h, not pixman.h, in local .c files
+
+   This is so that changes (such as symbol renames) can take place in
+   pixman-private and ensure that they're included before the prototypes from
+   pixman.h. pixman-private.h includes pixman.h right at the start.
+
+commit 787cc57c7cb36a3b7eff836dd979d08cf7861e29
+Author: Bertram Felgenhauer <int-e@gmx.de>
+Date: Wed Jan 23 16:08:48 2008 +0100
+
+   export pixman_transform_point_3d function
+
+commit e4d482a6bb766f50f49ba81591ca7c26ba3ce047
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Jan 22 16:33:58 2008 -0800
+
+   A tiny amount of ifdef reduction.
+
+   Just moving two common assignments outside the condition to
+   drop the #else part.
+

+commit bcac3335893a24e1d16790cb38d8a105b1e19951
+Merge: e5ceddf 054be10
+Author: Carl Worth <cworth@cworth.org>
+Date:
  Tue Jan 22 16:31:44 2008 -0800
+
+   Merge commit 'inte/sampling'
+
+commit e5ceddf038d69cef74df0632f93abae37ec6d7ce
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Oct 30 13:03:18 2007 -0700
+
+   Ignore test/fetch-test
+
+commit ad773927d885515bf43d9824c1577199fccfc535
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Oct 30 12:52:19 2007 -0700
+
+   Add release-publish target and RELEASING instructions
+
+commit 054be107365cac5dc6cff2b6f705978f1899c79e
+Author: Bertram Felgenhauer <int-e@gmx.de>
+Date: Tue Jan 22 08:00:05 2008 +0100
+
+   eliminate a special case in fbRasterizeEdges{4,8}.
+
+commit 5467807e757ad6a5ec45085c963425f9dd6d2414
+Author: Bertram Felgenhauer <int-e@gmx.de>
+Date: Tue Jan 22 07:57:54 2008 +0100
+
+   fix cairo's a1-traps-sample test
+   For 1 bit alpha targets, the left and right boundaries of edges were
+   not rounded correctly.
+
+commit 1d89bac5a7a5693911d8a74701bd1c0292160478
+Author: Bertram Felgenhauer <int-e@gmx.de>
+Date:
  Sat Jan 19 13:29:56 2008 +0100
+
+   fix cairo's a1-image-sample test
+   Move the sampling point for image surfaces very slightly so that it's in
+   the upper left quadrant of the pixel.
+
+commit 45074018c3c221272719ecb2bf9f4ec66ffb8729
+Author: Alp Toker <alp@toker.com>
+Date: Tue Jan 15 16:34:57 2008 -0500
+
+   Avoid use of C++ keyword xor in header

+
+commit e0af5922cdc5caa97cfb822b792d744e28a3bb37
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Tue Jan 15 16:51:59 2008 -0800
+
+   Remove trailing ; in SETUP_YV12 macro
+
+   Causes compilation problems with MSVC.
+
+commit 9a0639650e276c4c0da5dfe37a8d3ba5a6b81712
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Tue Nov 6 16:15:01 2007 -0800
+
+   Remove last CVS Id tags
+
+commit df964790e893a8b511e9322e7161087d8ba182cc
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu Dec 20 00:23:18 2007 -0500
+
+   Don't use the pixbuf fast paths when the source picture has alpha. Bug
+   13650,
 reported by Wu Nian.
+
+commit 49240111dbb31c335856f9653544a039275bf033
+Merge: 808e4f5 72b46bc
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Sun Dec 16 00:38:16 2007 +0100
+
+   Merge branch 'master' of git://anongit.freedesktop.org/pixman
+
+commit 72b46bcf345db668b3ec00e7f27c5454cf2ad8b5
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Dec 7 18:59:54 2007 -0500
+
+   Guard MMX get_fast_path() with pixman_have_mmx()
+
+commit bb056d4e02ff8ff27f4d2a14f630f5dc01b85d28
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Dec 3 13:14:42 2007 -0500
+
+   Use -fvisibility=hidden by default.
+
+   Add a PIXMAN_EXPORT macro that expands to the appropriate GCC magic.
+   Various formatting fixes.
+
+commit 48d52fadc23ab027215a3d6c07ffcdbb6d40eb3f
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Dec 1 22:50:05 2007 -0500

+
+   Make the tables static; remove unused flag
+
+commit 0a53c41dbc5d6476595b2ad58dd9a14a3e85295c
+Author: Søren Sandmann <sandmann@redhat.com>
+Date:
  Sat Dec 1 21:56:25 2007 -0500
+
+   Set maskRepeat to FALSE when the function is NEED_SOLID_MASK
+
+commit 47d39c002d3b5bce827ab1f782583ae8625a5975
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Dec 1 20:55:56 2007 -0500
+
+   Conditionalize MMX code with USE_MMX
+
+commit 14d628b0154c6101f0d1bb03d91ff99ca07e4398
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Dec 1 20:54:13 2007 -0500
+
+   Add some commented-out plain C fast paths.
+
+commit a916c69cc6a02cf35e6aa26181581faf560b6e9d
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Dec 1 20:46:29 2007 -0500
+
+   Delete switch of doom.
+
+commit 4dcddfa6e9d4de4f4e08fd8e8879db5327b8bf2a
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Dec 1 20:41:49 2007 -0500
+
+   Check for correct op.
+
+commit 60134ed7ab638b244dc4f3007d56d794815dab7b
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Dec 1 20:35:03 2007 -0500
+
+   Add code to locate fast paths. Comment
 out switch of doom.
+
+commit 819a6d6878d57d3b55075f048a7eed6d5bcab694
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Dec 1 19:56:26 2007 -0500
+
+   Beginning of the end for the Switch of Doom.
+
+   Add tables with information about the MMX and plain-C fast paths.

+   Update TODO.
+
+commit f1f52ae4b1b2cca27104c1210625356084baf2f8
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Oct 30 11:48:31 2007 -0700
+
+   Track name change from pixman.pc to pixman-1.pc in .gitignore
+
+commit d4d78c8c1a73d1007ebaae3117923bb72d09118f
+Merge: 85bccce b39ca42
+Author: Alan Hourihane <alanh@tungstengraphics.com>
+Date: Wed Oct 24 21:39:34 2007 +0100
+
+   Merge branch 'master' of git+ssh://git.freedesktop.org/git/pixman into yuv-porting
+
+commit b39ca42fce85248f6c19459388f71bf73a147792
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Oct 24 15:48:45 2007 -0400
+
+   Bump version number
+
+commit 85bccce4d863b99be4b9ce62a8ac7d95f0acab3d
+Merge: 8aa38d2
 2853243
+Author: Alan Hourihane <alanh@tungstengraphics.com>
+Date: Thu Oct 18 17:33:43 2007 +0100
+
+   Merge branch 'master' of git+ssh://git.freedesktop.org/git/pixman into yuv-porting
+
+   Conflicts:
+
+   pixman/pixman-compose.c
+   pixman/pixman.h
+
+commit 28532430efeb4a1aba8f3e30a790531d2a9e1472
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Oct 17 20:01:27 2007 -0400
+
+   Only compile with -msse on x86-64.
+
+commit ab6743b17074dfedffb0ee32fe2e37cad03769bf
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Oct 17 19:20:55 2007 -0400
+
+   Make stride signed in various places. This should fix some the
+   crashers that people have reported in bug 12398.
+
+commit aca8b610d9ab178fcbcfa4a44d87e52aa7918ea4

+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed Oct 17 18:43:13 2007 -0400
+
+   Remove comma from enumerator list. Bug 12621, reported by Matt Kraai.
+
+commit 089c3e6ad00105b2f9a1118d15b4f381653ea6ff
+Author: Søren Sandmann
 <sandmann@redhat.com>
+Date: Wed Oct 17 18:40:28 2007 -0400
+
+   Add README file based on text from Bjorn Lindquist
+
+commit 8aa38d2256c191bf3437034f6176bae30c3c3d19
+Merge: cea752b 39a67d3
+Author: Alan Hourihane <alanh@tungstengraphics.com>
+Date: Wed Oct 17 19:39:41 2007 +0100
+
+   Merge branch 'master' of git+ssh://git.freedesktop.org/git/pixman into yuv-porting
+
+   Conflicts:
+
+   pixman/pixman-image.c
+
+commit 808e4f541b4cfde40c91e6c6cd942f9074d38e94
+Merge: 33d4028 39a67d3
+Author: Luca Barbato <lu_zero@gentoo.org>
+Date: Mon Oct 1 22:13:05 2007 +0000
+
+   Merge branch 'master' of git://anongit.freedesktop.org/pixman
+
+commit 39a67d35f05aa47cf50191e0837a2125593a7bbc
+Author: Tilman Sauerbeck <tilman@code-monkey.de>
+Date: Sat Sep 29 22:45:42 2007 +0200
+
+   Fixed the declaration of pixman_image_set_source_clipping().
+
+commit 7f820e15070c9b9618d78425b8cb1a4df722eb22
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Thu Sep 27 12:46:46 2007
 +0100
+
+   [pixman-image] [mlk] Free the locally allocated bits.
+
+   If we fail to allocate the image, remember to free the bits if we have
+   created the buffer on behalf of the caller.
+
+commit b4f0cc6eeaff8d5ea114734fcfa293fce1904ce4
+Author: Chris Wilson <chris@chris-wilson.co.uk>

+Date: Thu Sep 27 12:44:44 2007 +0100
+
+   [pixman-image] Avoid a potential malloc(0).
+
+   Do not attempt to allocate bits if either the image width or height is
+   0 - Cairo has a habit of attempting to create such surfaces when
+   generating glyphs. The malloc(0) may return a NULL pointer and be treated
+   as an out-of-memory error.
+
+commit 958a650b8eb1b61143122c3ad1f9b637b6467984
+Author: Chris Wilson <chris@chris-wilson.co.uk>
+Date: Thu Sep 27 12:40:59 2007 +0100
+
+   [pixman-image] Avoid integer overflow when allocating bits.
+
+   Check for potential overflows at every step of the calculation of the
+   buffer size required for the pixels.
+
+   (Fixes
 https://bugs.freedesktop.org/show_bug.cgi?id=11627)
+
+commit 5b60c91fd6865021aa6027ee65fa8371a4e2d297
+Author: Jeff Muizelaar <jeff@freiheit.infidigm.net>
+Date: Thu Sep 20 15:40:17 2007 -0400
+
+   Fix special case selection when the mask has a transform
+
+
http://gitweb.freedesktop.org/?p=xorg/xserver.git;a=commitdiff;h=c19ece1d8c32dc81740a4036a642661f54064e75
+   was a mismerge that avoided setting the maskTransform condition when the mask
+   has a transform. This allowed a special case routine to be chosen when the
+   mask had a transform, which is not expected by the special case routines.
+
+commit cea752bdb80c8e6317a8c8af8510807c87d87694
+Author: José Fonseca <jrfonseca@tungstengraphics.com>
+Date: Mon Sep 17 18:49:40 2007 +0100
+
+   Prevent promotion to unsigned when calculating strides.
+
+commit 1092cdd09f71748182e578957de9610b729df257
+Author: José Fonseca <jrfonseca@tungstengraphics.com>
+Date: Mon Sep 17 17:08:31 2007 +0100
+
+   Use a consistent
 type for stride and more importantly, use always a signed type.
+
+commit be4990f4a0a8d278b99df7669c5162136120ccd5
+Author: José Fonseca <jrfonseca@tungstengraphics.com>

+Date: Fri Sep 14 15:48:18 2007 +0100
+
+   Remove the macro magic from READ/WRITE macros.
+
+commit 14f2a4c222bb6f0748a07e21663663b43beef466
+Author: José Fonseca <jrfonseca@tungstengraphics.com>
+Date: Fri Sep 14 10:53:32 2007 +0100
+
+   Remove the MMX code path for YV12 for the meanwhile, as pixel output is not
+   exactly the same as the non-MMX code.
+
+   This reverts commit c61d6ae39e5039dcb27bf95334a86520b562bbc5.
+
+commit 3be35594c99b7abd2af43b66349ca53bfa1462d6
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Sep 11 16:29:06 2007 +0100
+
+   Fix build breakage when under the influence of USE_MMX
+
+   This was recently broken (dc7c047d1c68f343b66e81d9e79084e4171e2634) when
+   removing an assignment to noinst_LTLIBRARIES.
+
+commit dc7c047d1c68f343b66e81d9e79084e4171e2634
+Author:
 Vladimir Vukicevic <vladimir@pobox.com>
+Date: Mon Sep 10 15:20:44 2007 -0700
+
+   [memlk] don't try to allocate new data for 0-rectangle regions
+
+commit c61d6ae39e5039dcb27bf95334a86520b562bbc5
+Author: José Fonseca <jrfonseca@tungstengraphics.com>
+Date: Fri Sep 7 10:52:01 2007 +0100
+
+   MMX code path for YV12 copy, taken from the xserver glucose-2 branch.
+
+commit 562fa00e40b5466914b4f4cf49ae183e7b38e4f8
+Author: José Fonseca <jrfonseca@tungstengraphics.com>
+Date: Fri Sep 7 10:49:21 2007 +0100
+
+   YUV formats fetch support.
+
+commit 469dd84cf8862a54ac31f0fc91ee539f3ad439e2
+Author: José Fonseca <jrfonseca@tungstengraphics.com>
+Date: Thu Sep 6 12:27:12 2007 +0100
+
+   New test for image fetching.
+
+commit ba5fc60317e177a4140d4ea2cf8cb538d1e4e07a

+Author: José Fonseca <jrfonseca@tungstengraphics.com>
+Date: Wed Sep 5 21:56:24 2007 +0100
+
+   Perform stride calculations inside the callback functions.
+
+commit 1b098ede1938d1225c32cf5639e4c7a891859897
+Author:
 Vladimir Vukicevic <vladimir@pobox.com>
+Date: Tue Sep 4 11:19:33 2007 -0700
+
+   [win32] Makefile and compilation fixes for win32
+
+commit 5fc4d5ab1fae8677f5a95f5eb0e4fad3a9e0bf82
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Tue Sep 4 11:18:40 2007 -0700
+
+   compilation: build edge/compose with accessors separately
+
+   Simplify the build by creating a new file for pixman-compose and
+   pixman-edge built with accessor functions.
+
+commit 6b96b62ca419ac414d5715a4ba9f30664e510fcd
+Author: Carl Worth <cworth@cworth.org>
+Date: Tue Sep 4 17:24:04 2007 -0700
+
+   Don't copy unused bits to an alpha channel
+
+   This bug was identified by cairo's rgb24-ignore-alpha test which
+   blends RGB24 over ARGB32 and notices that "alpha" values are
+   making it from the source to the destination.
+
+commit 8ff7213f39edc1b2b8b60d6b0cc5d5f14ca1928d
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Sat Aug 25 23:30:41 2007 -0700
+
+   rasterize traps
 that extend outside of the image bounds correctly
+
+   Traps that extend outside of the image bounds are rasterized incorrectly
+   currently; the problem is a signed vs. unsigned comparison that got
+   introduced when a width parameter went from int -> uint. This patch
+   puts it back to int (since it's stored as an int in the bits structure
+   to begin with), and also fixes a similar warning in the memset wrapper
+
+commit 028993aacb9ec48aa9d347d0d189250b464cf30f
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Aug 24 16:49:29 2007 -0400
+

+   Set accessors for the destination image in composite-test.c
+
+commit 341be6a408e86d5b8976e63746e646ef973339bb
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Aug 24 16:30:10 2007 -0400
+
+   Add missing comma in enum
+
+commit fb667257ab8f5cf9c6af399ac394b8aa7826fd96
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Aug 24 16:19:31 2007 -0400
+
+   Remove trailing comma in enum
+
+commit c7dad7b9a038fbe94a2bdc67cc0a5f40f8a40d5c
+Author:
 Søren Sandmann <sandmann@redhat.com>
+Date: Fri Aug 24 16:12:30 2007 -0400
+
+   Add conjoint and disjoint operators to pixman.h
+
+commit 245a5e04eb4bf3b973d32ce5f21e6e2eac00b48b
+Merge: 25846ed 9c09561
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Aug 21 16:31:45 2007 -0400
+
+   Merge branch 'master' of ssh+git://sandmann@git.freedesktop.org/git/pixman
+
+commit 25846ed93a87fcaefbfdb397343e986c8f53f997
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Aug 21 14:11:54 2007 -0400
+
+   Fix bug 12039, based on Chris Wilson's patch.
+
+commit 9c09561a91debfd7c77a39b337b51b2ab16d6da9
+Author: Eric Anholt <eric@anholt.net>
+Date: Mon Aug 20 12:58:47 2007 -0700
+
+   Fix failure to set identity transform in pixman.
+
+   While here, optimize out a free/malloc in the case where a transform
+   existed previously and the new transform is non-identity.
+
+commit 3e74bc431908dd42775d8e82ca2e4d589de820cb
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Aug 17 18:01:09 2007 -0400
+

+   Add pixman_image_set_source_clipping()
+
+commit c7bec5898891f3077986c141b48e5ff77f1d5046
+Author: Carl Worth <cworth@cworth.org>
+Date: Wed Aug 15 10:16:11 2007 -0700
+
+   Fix typo AC_MAJOR -> PIXMAN_MAJOR
+
+   This typo was causing build failures for some. Thanks to David Sharp for
+   pointing out the problem.
+
+commit d9b989c890724480d27aec471d5f5fbcc09c0a61
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Tue Aug 14 16:16:27 2007 -0700
+
+   Remove redundant defines.
+
+commit 7bdb9840eb414b41ad41871864baa4f2445d8c05
+Author: Arcady Goldmints-Orlov <arcadyg@nvidia.com>
+Date: Mon Aug 13 17:37:59 2007 -0700
+
+   One more minor wrapping fix
+
+   Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
+
+commit 166b78295683d9bcf688702e98259e62f9b25c86
+Author: Arcady Goldmints-Orlov <arcadyg@nvidia.com>
+Date: Mon Aug 13 15:20:18 2007 -0700
+
+   Remove
 unnecessary wrapping from fbFetch/fbStore.
+
+   These functions fetch from a picture to a scanline buffer, or store
+   from a scanline buffer to a picture. Since pixman allocates its own
+   scanline buffer, we don't need to wrap accesses to it.
+
+   Signed-off-by: Aaron Plattner <aplattner@nvidia.com>
+
+commit 7b1d0c091dd5ae8797b6f7a0ab3d40d5c3676fe9
+Author: Aaron Plattner <aplattner@nvidia.com>
+Date: Mon Aug 13 17:26:51 2007 -0700
+
+   Don't skip fbFetch/fbStore when PIXMAN_FB_ACCESSORS is enabled.
+
+   pixman_composite_rect_general_accessors skips the fetch / store steps by setting
+   store to NULL when the op is ADD or OVER and the dest format is [ax]8r8g8b8.
+   This optimization is only valid when no accessors are in play.
+

+commit 43370d1ce793ef2754c2e6f0fc08e534d4247793
+Author: Eric Anholt <eric@anholt.net>
+Date: Mon Aug 6 20:06:48 2007 -0700
+
+   Update .pc file for library version name change.
+
+commit 778a3f9d7136de062806473dd3604eb03ba5d866
+Author:
 Aaron Plattner <aplattner@nvidia.com>
+Date: Wed Aug 1 14:16:55 2007 -0700
+
+   Return a bool from pixman_image_unref.
+
+   Returns TRUE when the refcount reaches 0 and the image is freed.
+
+commit 4838e2e9d9635883841e692a7074bcb2be96dcf5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Aug 6 17:28:06 2007 -0400
+
+   Bump version number; fix typo in configure.ac
+
+commit 7b3c9cef49cdedef03112054925005fa21120bd5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Aug 6 17:24:44 2007 -0400
+
+   Change the library name to pixman-1
+   Set the soname to something based on the library version.
+
+commit 19c46bf18b9cf6694fa3de9c836a3d1eed6c6dac
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Fri Aug 3 15:24:03 2007 -0700
+
+   Fix OpenSolaris compilation
+
+commit 0c80a0cd84f30616563cef5910df9deb4f8ed687
+Author: Alan Coopersmith <alanc@sun.com>
+Date: Mon Jul 16 15:06:23 2007 -0400
+
+   Build fixes for Solaris.
+
+commit
 0f392d81748ab1338d294de96e28c43270f24180
+Author: Jinghua Luo <sunmoon1997@gmail.com>
+Date: Tue Jul 10 14:47:28 2007 +0800
+
+   Fix bug in rasterizeEdges() where the stride should be signed.
+
+commit bbef73192e558695933d7f05befaa8c18550bb63

+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon Jul 2 12:18:42 2007 -0400
+
+   Port Vlad's fixes for integer overflows with malloc().
+
+commit 33d4028e3fffa231f40d66b5843de589ec2642fe
+Author: root <root@echo.(none)>
+Date: Sun Jul 1 11:42:49 2007 +0000
+
+   First import of vmx
+
+commit 2e61f30e4c8d0e01e175495e13a5f132521ad6f2
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Jun 22 13:37:46 2007 -0400
+
+   Revert "Add a cache of images to reduce malloc/free time"
+
+   Revert the image cache since it isn't thread safe.
+
+   This reverts commit deb09d769ae4fc55cde595c170f417692284b3e8.
+
+commit 64e3146c5ddfad415663fa5f87f7b9ff327a8c56
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date:
  Fri Jun 22 00:58:05 2007 -0400
+
+   Don't treat void as a value. Bug 11322, Alan Coopersmith.
+
+commit 8216ba1cbd27c5428970b8d393722d0f4343efed
+Author: Vladimir Vukicevic <vladimir@pobox.com>
+Date: Wed Jun 20 15:13:30 2007 -0400
+
+   Add pixman_region_init_rects()
+
+commit f1194a8bc0599e3ecceb785795ad8283a7c04dc0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 20 12:12:43 2007 -0400
+
+   Fix typo
+
+commit 3dbb2a56bd1918595091006c6e0de5260d43af09
+Author: Alex Larsson <alexl@redhat.com>
+Date: Wed Jun 20 12:01:12 2007 -0400
+
+   Add non-mmx fast paths for In_8x8 and In_nx8x8. Bug 4191, patch by
+   Alex Larsson.
+
+commit 658acaad4e73ac705f705f947a42a2cd0979042c

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Wed Jun 20 11:36:22 2007 -0400
+
+   Add fbCompositeSrc_8888xx888(); comment out
+   fbCompositeOver_x888x8x8888{mmx} since they are not actually faster
+   than the generic code.
+
+commit 440ed1da1c7ac600865c615cf257173cac2af214
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 19 14:41:04 2007 -0400
+
+   Optimize pixman_fill_rectangles() in a few more cases
+
+commit deb09d769ae4fc55cde595c170f417692284b3e8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 19 12:41:21 2007 -0400
+
+   Add a cache of images to reduce malloc/free time
+
+commit 6cb74dfe3d395051f9a2e4b850979a018ac340ca
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 19 11:23:05 2007 -0400
+
+   Also store the g3 part correctly
+
+commit 07e73371ef096b42d3a983266105b71ea01b4cc8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 19 11:19:43 2007 -0400
+
+   Fix fbStore_b2g3r3(). Pointed out by Dan Amelang
+
+commit d7f426806d25a9cea93a4c43a3f23e7ae9d67383
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 19 10:46:36 2007 -0400
+
+   Smplify the 1x1r optimization for the general compositing and fix the
+   1xn
 and nx1 cases.
+
+commit 9ebec1f7dbe5576d572fede28d7560ea6000b566
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 19 10:40:58 2007 -0400
+
+   Fix pixman_fill() to return TRUE when it succeeded
+
+commit 15b5960bcb7cadfe6fe92036dc0f08a85a2009f1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Tue Jun 19 00:57:33 2007 -0400
+
+   Add in 0xff alpha channel in Over_x888x8x8888mmx
+
+commit e73e000d5bd44a198e35b6d0c421a735d00e0b3f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 19 00:35:58 2007 -0400
+
+   Fix solid fill optimization to compute the src correctly
+
+commit edbe099ad3906d7626de854d144fc23d78408357
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 18 14:29:02 2007 -0400
+
+   Add non-mmx solid fills. Update TODO
+
+commit f9454b3423b948022f36b7191db8c5f988f46273
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 18 13:37:20 2007 -0400
+
+   Make sure the output of
 fbCompositeOver_x888x8x8888 is actually stored
+
+commit 0e4292666de736a584a3d4e0bcfc6db7d2c6538d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 23:10:23 2007 -0400
+
+   Also use this function in the xBGR case
+
+commit 80a61bfb3dcf26271766e36aa31d454889ee43a5
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 22:57:47 2007 -0400
+
+   Add new fbCompositeOver_x888x8x8888mmx() operation
+
+commit 19360d0df2ba55d34963101a662dd0ab51d84836
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 22:43:55 2007 -0400
+
+   Add fbCompositeOver_x888x8x8888() fast path
+
+commit ff4004f3fbd3c576f1c931c680ad293c5038846d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 22:24:46 2007 -0400
+
+   Rename fbCompositeSrc_x888x8x8888 to x888xnx8888
+
+commit 30f198fe53949da59821d2f394f0cecb5bdaa646

+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 18:50:00 2007 -0400
+
+   Remove
 accidentally committed use of TIMER_BEGIN/END
+
+commit e71844095ea75b4f9f66c85c87b4b3b6c287e02f
+Merge: 4f9f7ae 647852d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 18:49:02 2007 -0400
+
+   Merge branch 'master' of ssh+git://sandmann@git.freedesktop.org/git/pixman
+
+commit 647852d714ddfe6e1d71af1f4aea0e272c459fc6
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sun Jun 17 18:55:37 2007 -0400
+
+   Add timer macros
+
+commit 4f9f7ae47ad258a1605a6b38c5ec268c9ee17150
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 18:02:06 2007 -0400
+
+   Update TODO
+
+commit ad80d4d2bc8c4e37a8266b98a2241c0ebd7f0e43
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sun Jun 17 01:00:07 2007 -0400
+
+   Optimize fill rectangles in the op=PIXMAN_OP_CLEAR case
+
+commit 9deaaae3f61f1701b022fe7daa1823a99fda7d00
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Jun 16 23:08:53 2007 -0400
+
+   Use the general code
 in some cases even when a fast path is available
+
+   If src or mask are repeating 1x1 images and srcRepeat or
+   maskRepeat are still TRUE, it means the fast path we
+   selected does not actually handle repeating images.
+   So rather than call the "fast path" with a zillion
+   1x1 requests, we just use the general code (which does
+   do something sensible with 1x1 repeating images).
+
+commit e0a501d9b7e5c4ca07115552a16c4c4953ec5702
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Jun 16 22:10:36 2007 -0400

+
+   Remove ACCESS_MEM macro; define READ and WRITE to directly use the wrapper functions
+
+commit 9b3cfcc13d0613cfb9d15b21a6b90e4a91a1666f
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Jun 16 21:40:43 2007 -0400
+
+   Move some utility functions from pixman-edge.c to pixman-utils.c
+   Set up so pixman-edge.c is compiled twice.
+
+commit 3cd36dae288ac0923f214b8ae81dbfc0f4d5b1b0
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat
 Jun 16 21:23:20 2007 -0400
+
+   Slight tweak to the definition of pixman_composeFunctions
+
+commit 68d6c68adaba3a1d538bceca7d7955129d6075de
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat Jun 16 21:19:51 2007 -0400
+
+   Add #defines etc to compile pixman-compose.c twice
+
+commit b5d07147fba7085d52966aa162db5d38164dfebf
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 16 15:13:04 2007 -0400
+
+   Make fbCompositeSrc_8888x8888mmx() check if the mask is 0
+
+commit 5122f2b28bfbf08479cc88ff9ddfeb371f92264f
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 16 14:56:25 2007 -0400
+
+   Unroll loop in fbComposite_x888x8x8888()
+
+commit 8fc40c3b0076e99cc996bd27a2479db4c94cc77b
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 16 14:49:11 2007 -0400
+
+   Optimize 1x1 repeating images in the general case
+
+   Reinstate checks for empty masks in mmxCombineOverU() and mmxCombineMaskU()
+
+commit 15e5cf16a9770da682addeaff5df8b1793cf4b73
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 16 12:55:59 2007 -0400
+

+   Add a few optimizations for solid fills
+
+commit 10854b9d63afe6893ac15fb67714eb98b7a8eca6
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 16 01:40:07 2007 -0400
+
+   Plug leak of the gradient stops
+
+commit e365aaf7f34d9257fc53e8f180a84fa243edcb2c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Sat Jun 16 01:15:05 2007 -0400
+
+   Plug leak in the bits=NULL case for pixman_image_create_bits()
+
+commit 451a0510324491e82269d8e0d997ee4707ba8df8
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Fri Jun 15 14:33:57 2007 -0400
+
+   When setting identity transformations store them as NULL to prevent
+
+   hitting the general compositing code.
+
+commit cd9c484f0d8cef0cc243a73de5a8d742b8678230
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Jun 15 01:45:04 2007 -0400
+
+   Turn off debug
 spew for incorrect arguments
+
+commit e1dd17451cbe2c7d36205fe2fc4cea0092ee4141
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Fri Jun 15 00:15:03 2007 -0400
+
+   Disable source clipping by default
+
+commit 1426483f8af21553bd8b2ad997617680944be420
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu Jun 14 17:37:12 2007 -0400
+
+   Update TODO
+
+commit 7a8877bc0800ffcfe18bedec49068049c877fa5d
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu Jun 14 17:35:28 2007 -0400
+
+   Update TODO
+
+commit a0e161ca9aa562a0f4b55b15b1ab3b9380f0d9bb

+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu Jun 14 17:34:42 2007 -0400
+
+   Update TODO
+
+commit 596bd530205e9835ede0bc8816c9b2dfff75e921
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu Jun 14 12:59:15 2007 -0400
+
+   Reset clip regions correctly when NULL is passed
+
+commit e8dfb54ccea26b7e7948ca9806c97194892f0791
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 23:50:04
 2007 -0400
+
+   Make default clip region the full image
+
+commit 42192ad0fc7fe0fa7600f879646de867691351bb
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 23:37:25 2007 -0400
+
+   Don't complain if users try to read non-existing data from images
+
+commit 0e77667851869849cbddc30466db99ff5dc02b19
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 22:53:35 2007 -0400
+
+   Don't require rowstride to be a multiple of 4 when bits is NULL
+
+commit b6bdd8273cc3500d1f69402f39c3d6e718920a66
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 22:14:32 2007 -0400
+
+   Add pixman_fill_rectangles()
+
+commit 0ab81dc6383e843aa3fa78da289820a55f4a08f0
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 15:32:27 2007 -0400
+
+   Add pixman_add_trapezoids() function
+
+commit 756b54f6e45bb423ffabfcad2b6d8574130c6e53
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 15:27:31 2007 -0400
+
+   Add boolean returns to various

setters
+
+commit 6d62986ee0be7191ad6ef938d82cbadbe995c377
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 14:30:53 2007 -0400
+
+   Allow bits to be NULL when bit images are created
+
+commit d466cf1d2f09f78baaafac713d6bc7d4f003b860
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue Jun 12 14:24:40 2007 -0400
+
+   Add various accessors; remove composite_rect
+
+commit b62b769c0da8d8eae68bd41a53f390c1f0917be0
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 11 22:02:03 2007 -0400
+
+   Bump version number
+
+commit c663029510c8a329dc87246cc895b21f0af79eb6
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 11 21:39:24 2007 -0400
+
+   Make use of pixman_fill_mmx() in various places. Delete #if0'ed code
+
+commit 3dca89a677528845ccaee7ff6d355207c631ddd2
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 11 21:35:14 2007 -0400
+
+   Add pixman_fill_mmx() function
+
+commit cf6b8f63d4dd2d96efcde673696e1703856a3787
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 11 14:55:31 2007 -0400
+
+   Forgotten fbHaveMMX()
+
+commit 02f6129400eda40167e91e0ff4724d7a5ae5a80d
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 11 14:54:44 2007 -0400
+
+   Rename fbHaveMMX() pixman_have_mmx()
+   Guard pixman_blt_mmx() with pixman_have_mmx()
+
+commit 105d398c4d061eb102747f824e6c04ab897cb5e1
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>

+Date: Mon Jun 11 14:41:01 2007 -0400
+
+   Add pixman_blt_mmx() based on fbBltmmx() from the X server.
+
+   Implement fbCompositeAreammx() in terms of it.
+
+   Uncomment calls to fbCompositeAreammx() in pixman-pict.c
+
+   Add public pixman_blt() that just returns false if not using mmx.
+
+commit 6a64eb109449806186164332383be1235ab9c21c
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 11 09:15:05 2007 -0400
+
+   Bump version number
+
+commit 30499e2e88985df2cd1ece82227802a316e31a32
+Author:
 Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Mon Jun 11 00:22:19 2007 -0400
+
+   Add a version of miComputeCompositeRegion; call it from
+   pixman_image_composite(). Remove const from return value of
+   pixman_region_rectangles().
+
+commit 5ca61dc99b198243f08e6f1f3f96e3c87ff818b9
+Author: Søren Sandmann Pedersen <sandmann@redhat.com>
+Date: Tue Jun 5 11:33:17 2007 -0400
+
+   Fix bug in pixman_image_set_filter() where only the parameters were
+   updated, not the filter type. Reported by Michel Dänzer.
+
+commit 808e2de3a6270b32a026722f59a49736d224d46c
+Author: Daniel Stone <daniel@fooishbar.org>
+Date: Thu May 24 16:24:39 2007 +0300
+
+   Add .gitignore file
+
+commit d1ce3f95509bd86c0aa850d6b58c8a065517c84f
+Author: Daniel Stone <daniel@fooishbar.org>
+Date: Thu May 24 16:19:40 2007 +0300
+
+   Use canonical autogen.sh
+
+   Use the standard autogen.sh, which allows for srcdir != builddir.
+
+commit 8129984603de569e01563d810a334765c2ec5062
+Author:

```
 Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Wed May 23 16:38:38 2007 -0400
+
+    Declare the two new trapezoid functions in pixman.h
+
+commit 4355cc5c57f3e402af9a508762c8ed3a5ac9f2ca
+Author: Søren Sandmann <sandmann@redhat.com>
+Date:   Wed May 23 16:40:23 2007 -0400
+
+    Add pixman-trap with the trapezoid rasterization code from the X server.
+
+    Add two different trapezoid types that X makes use of.
+
+commit 35f99a530de11bcf0e98c372bc49b9bf0f2ecf37
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Wed May 23 16:09:49 2007 -0400
+
+    Make sure gradient-test.c builds when srcdir != buildir. Patch from
+    Julien Cristau <jcristau@debian.org>.
+
+commit d5e8a7b8bdd4b18e504859059683cb9723503b3c
+Author: Søren Sandmann <sandmann@redhat.com>
+Date:   Wed May 23 15:39:03 2007 -0400
+
+    Fix bug in rasterizeEdges() where the stride was treated as if in
+    bytes, when it was in uint32_t's.
 Formatting fixes. Delete misleading
+    comment from pixman-private.h
+
+commit ee37469d6adad32cb31e52a95abafa32943b3e8d
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Wed May 23 12:18:09 2007 -0400
+
+    Fix function name
+
+commit 727b77983bd8b684764e69cdea38ce6290c60467
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Tue May 22 13:39:25 2007 -0400
+
+    Add more edge functions
+
+commit 4600c6823e4dea52a34fe881f5374691bc76f555
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Tue May 22 12:52:52 2007 -0400
+
+    Add implementation of edge rasterization
+
+commit 1413bb7a5ddc2d49109a1e9669fab155352bc3c7
```

+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 22 11:58:46 2007 -0400
+
+   Add edge data types
+
+commit e32b240145ee7bbc2e69020b0bb00c33c68acf15
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue May 22 10:00:46 2007 -0400
+
+   Detect endianness
+
+commit
 e5cf135170198a33429b00f7c506a84054f0297e
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue May 22 09:54:19 2007 -0400
+
+   Include string.h in pixman-pict.c
+
+commit 097de78d135259c64c5cf8789680bfdc354c12f9
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue May 22 09:51:54 2007 -0400
+
+   Check for getisax() support
+
+commit 37f90ba0b2d9797de93477aaa9e113329e50f93d
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue May 22 09:49:23 2007 -0400
+
+   Check for MMX in the build system
+
+commit 56623268a76ab65228c41dba5fbf27463b1a5691
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue May 22 00:04:39 2007 -0400
+
+   Update TODO
+
+commit ed184ebb7c2f12010207ffa210975a9b22b152ef
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Tue May 22 00:03:31 2007 -0400
+
+   Make the mmx code compile
+
+commit 2db377de616c4c0826d1a56777d7a4f858049758
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon May 21 23:46:24 2007 -0400
+
+

Add pixman-mmx.[ch] and move macros around to make it compile.
+ Not yet hooked up.
+
+commit ce506999e6dc6ad07d2665277d0250e7d9e0b6a8
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Mon May 21 20:03:37 2007 -0400
+
+ Use the general code if the images have read/write functions
+
+commit a54096d554414dd88a3c6a7a53816552844a5b08
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Mon May 21 17:51:41 2007 -0400
+
+ Update TODO
+
+commit ccef70a685191bb3cd4b7891f1ebde1881b3aa13
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Mon May 21 15:03:41 2007 -0400
+
+ Fix bug in fbCompositeGetSolid() where a format was compared to a format type
+
+commit 154c4dd97896178cd54bdb1057bef2eab3870c0c
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Mon May 21 14:27:40 2007 -0400
+
+ Make pixman_image_composite() take a region parameter; comment out non-implemented functions from the switch of doom
+
+commit 4518de9fec813bcb19facbc944821e882a91671a
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon May 21 10:00:05 2007 -0400
+
+ Add slightly changed copy of miComputeCompositeRegion() to pixman-pict.c
+
+commit 4df446bb73b1ab89e119d6714a3feae8a384e113
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 19 17:19:39 2007 -0400
+
+ Move mod and div macros to pixman-private.h
+
+commit bcb4c8f02137178096473191a05c3b84e4ce5116
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 19 17:13:02 2007 -0400
+
+ Add fbComposeGetStart() macro
+
+commit e9e326eafe3e4ed221eefbb7ddbd46d5d983505d
+Author: Søren Sandmann <sandmann@redhat.com>

+Date: Sat May 19 17:05:23 2007 -0400
+
+   Add fbComposeGetSolid() macro
+
+commit 456ebbbb27381d5fff4d2426a261c4760eb0b8df
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 19 16:44:40 2007 -0400
+
+   Add implementation of can_get_solid()
+
+commit eabc2f48f07decb5fa15db985fffa9e648506568
+Author:
 Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 19 16:40:10 2007 -0400
+
+   Various formatting/style tweaks
+
+commit bdb307ac4a6ad20e687f286491a3d9df6807567f
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 19 15:53:37 2007 -0400
+
+   Add macro FUNC that expands to __PRETTY_FUNCTION__ or __func__
+   depending on the compiler.
+
+commit 4c15a7838eadf9b608b28ebafccceb0aa25a83dc
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 19 12:04:21 2007 -0400
+
+   Include limits.h in pixman-compose.c; patch from Alan Coopersmith
+
+commit 595ca53c094b8dee6747670aaa471fb19f1a6d94
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 18 15:21:51 2007 -0400
+
+   Add pixman-pict.c which is a version of fbpict.c. It compiles, but
+   isn't hooked up to anything.
+
+commit e1328980457ce6f51ce2649d79feefa616408ce9
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 18 13:38:26 2007
 -0400
+
+   Make pixman_image_set_indexed() not copy its argument
+
+commit e12ca669af9143581c4af4c8c885273fc6b12c2d
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 18 12:04:16 2007 -0400
+

+   Free the indexed table when the image is freed
+
+commit ff2e0e9636b1dd3690b5ab5e1dff04ff5c9a07ab
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 18 11:54:01 2007 -0400
+
+   Add new function pixman_image_set_indexed()
+
+commit 74b76ad9fefd39d7d60a059f2f8537b5f6b94652
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Thu May 17 10:19:29 2007 -0400
+
+   Fix wrong type in composite-test.c
+
+commit d25d77852d253042b859468f64b228d11c2a0f82
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Thu May 17 09:12:09 2007 -0400
+
+   Add a TODO file. Indent pixman-compose.c
+
+commit db3c13c8fea0e3d0be382d55d58fc9d0d01bba44
+Author: Søren Sandmann <sandmann@redhat.com>
+Date:
  Wed May 16 19:35:55 2007 -0400
+
+   Add macro magic in pixman-private.h to allow reading and writing to
+   happen through functions. Use them in pixman-compose.c; also delete
+   unnecessary READ and WRITE macros that always operate on host memory.
+   Add accessor functions to composite-test.c
+
+commit 57d6894ab06d2ac07e17108c01e8ba282fc51384
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 16 11:13:11 2007 -0400
+
+   Add an image argument to all the store functions
+
+   Some tweaks to composite-test.c
+
+commit 0cfb66104cc553ba365df546d7ba9b0e8415e30f
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 16 11:07:54 2007 -0400
+
+   Add an image argument to all the fetch functions
+
+commit a49e425933e3ccd1ae59c0e60ddbab8a88282639
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 16 11:03:09 2007 -0400
+

+   Move some macros from pixman-compose.c to pixman-private.h
+
+commit
 24f8cfce32d3c5dcd3ff6d9ebd513c35cdacc972
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 16 10:56:08 2007 -0400
+
+   Add API to have accessor functions on pixman
+
+commit 195100527f6c678bf9848dc6c2a08658ed39a17d
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 15 16:40:40 2007 -0400
+
+   Various formatting fixes
+
+   Rename pixman_image_composite() to pixman_image_composite_rect()
+
+commit 97a4ce541c9fc72aeee0f05b8529d0ca87fb7863
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 15 12:15:46 2007 -0400
+
+   Fix typo in pixman.h
+
+commit 322659703d7c52d45ba3962b8386ac5f61e403db
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 15 12:13:01 2007 -0400
+
+   Replace hack to get standard integer types with #if/#elif construction
+
+commit ffbb4a6b1fb52dc46639d18bf0dd769fe53d3e88
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:
   Tue May 15 11:08:24 2007 -0400
+
+   Don't build GTK+ test programs if GTK+ is not available
+
+commit b8d223d6837d37bc09efdf3c4d957ff24337004a
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 12 19:24:42 2007 -0400
+
+   Export pixman_region_reset
+
+commit 38c4ac5a1d25d96087bfe1e3d02816feaa6b8bf9
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 12 17:58:50 2007 -0400
+
+   Export a pixman_region_selfcheck
+

+commit f226c2b4f2465aba5f9e1f3fed48f0840d0b67c0
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 12 17:55:48 2007 -0400
+
+   Export pixman_region_equal()
+
+commit ecf9d36f6a62f4d77e2c025ee3109ac46f13f15d
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Sat May 12 17:32:43 2007 -0400
+
+   Add new pixman_region_set_static_pointers
+
+commit ffab43129163de418c324cffcf602e6254024f95
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Thu May 10 22:15:57 2007 -0400
+
+
  Make the region data struct public
+
+commit e126ef091151372ed29562f3ff1a964774583b9b
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Thu May 10 16:14:40 2007 -0400
+
+   Make the pixman_transform_point_3d() function public
+
+commit f267e4dce73819a4a511ffaebd0cca9dcb3bd5fb
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Thu May 10 16:08:12 2007 -0400
+
+   Change the names of a few functions to prevent them from clashing with the X names
+
+commit c976db965862c0b2ba940122dc7e690cd23b5fa3
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu May 10 10:13:54 2007 -0400
+
+   Use a radial gradient in the gradien-test
+
+commit 7ad923eb6ff71b3865ea43b2ee247715607146da
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu May 10 09:30:17 2007 -0400
+
+   Make sure 64 bit fixed point types are signed
+
+commit a5a11df9024f9b7ee6194e0b842cd430f4fb5697
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Thu May 10 09:16:34
 2007 -0400
+

+   Add a transformation to the gradient test
+
+commit 1a58e8478f6f87de3ffe31b0fd2b1ee06d08fe6c
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed May 9 18:18:38 2007 -0400
+
+   Use fixpoint instead of double in gradient test
+
+commit 0ebb7e31db85a179afdcd731fcc6b0e311084cb1
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Wed May 9 18:10:30 2007 -0400
+
+   Remove AM_MAINTAINER_MODE ; add new gradient-test
+
+commit dd670c29bf1de3e951f936dba834e4bfe07a9bd4
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 9 14:20:57 2007 -0400
+
+   Fix various stupid mistakes, such as inverted return_if_fail() tests
+   and only allocating space for a pointer instead of an image.
+
+commit 271c830eb0b817bd892704fb15856b19b0458d07
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 9 11:22:56 2007 -0400
+
+   Remove *error from solid fill constructor
+
+commit e9b1be0151d7bc677bd74f0a5a6836672c1ad9dd
+Author:
 Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 9 11:12:21 2007 -0400
+
+   Various formatting fixes
+
+commit 059f62f3b02b6244b866e58d248bc8e6869f506e
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 9 11:09:59 2007 -0400
+
+   Handle setting of NULL properties
+
+commit 7529b47ee5f55e7b16bdfa750dd18dac11194210
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 9 11:00:06 2007 -0400
+
+   Make images ref counted. Memory management.
+
+commit 8bdb8b1d93bbbffafe111b4fc4dac0df9bbb6fe5
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>

+Date: Wed May 9 09:47:33 2007 -0400
+
+   Export pixman_gradient_stop; get rid of *error argument from init functions.
+
+   Add return_if_fail macros to pixman-private.h
+
+commit 4ea0d782092d9bd7c1570bcfccf3fe340a3d258a
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Wed May 9 08:20:43
 2007 -0400
+
+   Change to use malloced image instead of stack allocated
+
+commit 45c261d75ae348cb4afc6c97d4daa90cfd50e890
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 8 17:02:44 2007 -0400
+
+   Apply bad hack to avoid including config.h
+
+commit 59df25cbe403112c3c301dd212cfaa7b8f848499
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 8 14:24:32 2007 -0400
+
+   Install header file in pixman/pixman.h
+
+commit 2f882e03614608a2a39690cf4e7105e4dde25e21
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 8 14:00:13 2007 -0400
+
+   Fix libpixman.pc.in
+
+commit 0c01cbedbaf068a9db4edefbb130c58f1f1c85ac
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 8 13:37:03 2007 -0400
+
+   Add setters for various properties
+
+commit e36c6a5eb4cc89da8cf8d66dd45d02b75584e243
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:
  Tue May 8 13:19:51 2007 -0400
+
+   Make the test program test something useful.
+
+   Also add a check that the public image struct is big enough to contain the
+   private union.
+
+commit 4bd9ebc83d5a25141b5c9868513b918befd433d0

+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 8 10:48:27 2007 -0400
+
+   Add a simple test program; fix linking problems
+
+commit 50289aace6a8699c08593a8cb93bf8dfc30ed818
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Tue May 8 10:32:54 2007 -0400
+
+   Implement pixman_image_composite() in terms of fbCompositeRect().
+
+commit df7570f0ad6b903d7b910734f1906d423928c048
+Author: Søren Sandmann <sandmann@redhat.com>
+Date: Mon May 7 22:36:15 2007 -0400
+
+   Add a version of fbcompose.c. Fixes and additions to make it compile
+
+commit 589604bfa36524809f3f44b96f624f7c7bedbee0
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Sun May 6 12:46:42 2007 -0400
+
+
    Fix copyright notice
+
+commit c2602792aa8d5d4a376beb9557f544b78735c210
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 4 23:45:19 2007 -0400
+
+   Add fixed point macros, add declarations for image init functions
+
+commit da2510138584c4dd80b011f3bc767923c6ee443e
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 4 22:34:54 2007 -0400
+
+   Run configure from autogen.sh
+
+commit 560a2f52ade892526d5d64a1fb36471ade57ed45
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 4 22:34:22 2007 -0400
+
+   Don't run configure from autogen.sh
+
+commit eb90370859435390d0276d0c2c5f3251b32e431a
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date: Fri May 4 22:18:33 2007 -0400
+
+   Make autogen.sh run configure
+

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+commit 97cdcabe18a2e910dbfa4892dd8f32354fb02463
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Fri May 4 22:16:40
 2007 -0400
+
+    Changes to autogen.sh
+
+commit 261a293555d45245f34214e646131a410e8fd4a7
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Fri May 4 22:11:49 2007 -0400
+
+    Make autogen.sh run configure
+
+commit 9f40d13e9f9e23f62280375605f4234e71642c24
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Fri May 4 22:08:40 2007 -0400
+
+    Add pixman.pc.in
+
+commit 7f0b18c94cf84750b097fe96aa3c8ac9e1b406e3
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Fri May 4 22:07:19 2007 -0400
+
+    Add code to initialize images, based on picture.c from the X server
+
+commit af13f449087a5dd72abf5f1178234e85add33632
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:   Fri May 4 19:44:13 2007 -0400
+
+    Change autogen.sh to call autoreconf. Remove reference to libcomp.h
+
+commit 565f410a1c420da875cd9d13efa22126ad5fa567
+Author: Soren Sandmann Pedersen <ssp@dhcp83-218.boston.redhat.com>
+Date:
   Fri May 4 19:13:57 2007 -0400
+
+    Add the files.
--- pixman-0.40.0.orig/RELEASING
+++ pixman-0.40.0/RELEASING
@@ -0,0 +1,59 @@
+Here are the steps to follow to create a new pixman release:
+
+1) Ensure that there are no uncommitted changes or unpushed commits,
+   and that you are up to date with the latest commits in the central
+   repository. Here are a couple of useful commands:
+
+ git diff   (no output)
+
```

+ git status   (should report "nothing to commit")
+
+ git log master...origin (no output; note: *3* dots)
+
+2) Increment pixman_(major|minor|micro) in configure.ac and meson.build
+   according to the directions in those files.
+
+3) Make sure that new version works, including
+
+ - make distcheck passes
+
+ - the X server still works with the new pixman version
+   installed
+
+ - the cairo test suite hasn't gained any new failures compared
+   to last pixman version.
+
+4) Use "git commit" to record the changes made in step 2 and 3.
+
+5) Generate and publish
 the tar files by running
+
+ make PREV=<last version> GPGKEY=<your gpg key id> release-publish
+
+   If your freedesktop user name is different from your local one,
+   then also set the variable USER to your freedesktop user name.
+
+6) Run
+
+ make release-publish-message
+
+   to generate a draft release announcement. Edit it as appropriate and
+   send it to
+
+ cairo-announce@cairographics.org
+
+ pixman@lists.freedesktop.org
+
+ xorg-announce@lists.freedesktop.org
+
+7) Increment pixman_micro to the next larger (odd) number in
+   configure.ac. Commit this change, and push all commits created
+   during this process using
+
+ git push
+ git push --tags
+
+   You must use "--tags" here; otherwise the new tag will not

```
+   be pushed out.
+
+8) Change the topic of the #cairo IRC channel on freenode to advertise
+   the new version.
--- pixman-0.40.0.orig/autogen.sh
+++ pixman-0.40.0/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd
 $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@"
+fi
--- pixman-0.40.0.orig/contrib/ci.sh
+++ pixman-0.40.0/contrib/ci.sh
@@ -0,0 +1,6 @@
+#!/bin/sh
+
+set -ex
+
+./autogen.sh
+make -sj4 check
--- pixman-0.40.0.orig/debian/README.source
+++ pixman-0.40.0/debian/README.source
@@ -0,0 +1,3 @@
+This package uses quilt to manage modifications to the upstream source.  See
+/usr/share/doc/quilt/README.source for details.
+
--- pixman-0.40.0.orig/debian/changelog
+++ pixman-0.40.0/debian/changelog
@@ -0,0 +1,544 @@
+pixman (0.40.0-1.1~deb11u1) bullseye-security; urgency=high
+
+  * Non-maintainer upload by the Security Team.
+  * Rebuild for bullseye-security.
+
+ -- Salvatore Bonaccorso <carnil@debian.org>  Tue, 08 Nov 2022 23:11:38 +0100
+
+pixman (0.40.0-1.1) unstable; urgency=medium
```

+
+ * Non-maintainer upload.
+ * Avoid integer overflow leading to out-of-bounds write (CVE-2022-44638)
+
   (Closes: #1023427)
+
+ -- Salvatore Bonaccorso <carnil@debian.org> Thu, 03 Nov 2022 23:07:46 +0100
+
+pixman (0.40.0-1) unstable; urgency=medium
+
+ * New upstream release. (Closes: #958298, #832579, #838650)
+ * control, rules: Migrate to debhelper-compat, bump to 13.
+ * symbols: Updated, bump shlibs.
+
+ -- Timo Aaltonen <tjaalton@debian.org> Thu, 03 Dec 2020 15:28:13 +0200
+
+pixman (0.36.0-1) unstable; urgency=medium
+
+ * New upstream release.
+ * Update to my Debian address.
+ * Update Vcs-* URLs to point to salsa.debian.org.
+ * Use https URL in debian/copyright.
+ * Set source format to 1.0.
+ * Bump debhelper compat to 11.
+ * Bump standards version to 4.2.1.
+
+ -- Andreas Boll <aboll@debian.org> Wed, 12 Dec 2018 22:02:44 +0100
+
+pixman (0.34.0-2) unstable; urgency=medium
+
+ * Declare Multi-Arch: same for libpixman-1-dev (Closes: #884166).
+ * Switch to dbsym package.
+ * Stop passing --disable-silent-rules to configure, debhelper does it
+   now.
+ * Bump
 standards version to 4.1.2.
+
+ -- Andreas Boll <andreas.boll.dev@gmail.com> Sun, 17 Dec 2017 13:33:55 +0100
+
+pixman (0.34.0-1) unstable; urgency=medium
+
+ * Team upload.
+ * New upstream release (no actual changes)
+ * Use https URL in debian/watch.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 24 Sep 2016 13:25:16 +0200
+
+pixman (0.33.6-1) unstable; urgency=medium

+
+ * New upstream release candidate.
+ * Add myself to Uploaders.
+
+ -- Andreas Boll <andreas.boll.dev@gmail.com> Thu, 14 Jan 2016 13:46:28 +0100
+
+pixman (0.33.4-1) unstable; urgency=medium
+
+ * Team upload.
+ * New upstream release candidate.
+
+ -- Andreas Boll <andreas.boll.dev@gmail.com> Wed, 04 Nov 2015 13:26:18 +0100
+
+pixman (0.33.2-2) sid; urgency=medium
+
+ * Run tests with VERBOSE=1.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 12 Sep 2015 20:31:06 +0200
+
+pixman (0.33.2-1) sid; urgency=medium
+
+ [Andreas Boll]
+ * New upstream release candidate.
+ * Enable vmx on ppc64el (closes:
 #786345).
+ * Update Vcs-* fields.
+ * Add upstream url.
+ * Drop XC- prefix from Package-Type field.
+ * Bump standards version to 3.9.6.
+
+ [intrigeri]
+ * Simplify hardening build flags handling (closes: #760100).
+   Thanks to Simon Ruderich <simon@ruderich.org> for the patch.
+ * Enable all hardening build flags. Thanks to Simon Ruderich too.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 12 Sep 2015 13:08:02 +0200
+
+pixman (0.32.6-3) sid; urgency=medium
+
+ [intrigeri]
+ * Enable hardening build flags with dpkg-buildflags.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 23 Aug 2014 22:16:40 -0700
+
+pixman (0.32.6-2) sid; urgency=medium
+
+ [Julien Cristau]
+ * Disable vmx on ppc64el (closes: #745547). Thanks, Breno Leitao!

+
+ -- Cyril Brulebois <kibi@debian.org> Mon, 18 Aug 2014 22:50:39 +0200
+
+pixman (0.32.6-1) sid; urgency=medium
+
+ * New upstream release.
+ * Bump debhelper compat level to 9.
+ * Remove Cyril from Uploaders.
+
+ -- Julien
 Cristau <jcristau@debian.org> Sun, 13 Jul 2014 16:31:06 +0200
+
+pixman (0.32.4-1) sid; urgency=low
+
+ * New upstream release.
+
+ -- Julien Cristau <jcristau@debian.org> Tue, 17 Dec 2013 22:04:15 +0100
+
+pixman (0.30.2-2) sid; urgency=low
+
+ * Cherry-pick upstream bigfixes for fixing a crash when rendering
+   invalid trapezoids. (LP: #1197921)
+   Addresses CVE-2013-6425.
+
+ -- Maarten Lankhorst <maarten.lankhorst@ubuntu.com> Mon, 18 Nov 2013 15:08:56 +0100
+
+pixman (0.30.2-1) sid; urgency=low
+
+ * New upstream release
+   - includes big-endian matrix-test fix
+ * Increase alpha-loop test timeout some more.
+
+ -- Julien Cristau <jcristau@debian.org> Tue, 13 Aug 2013 12:08:18 +0200
+
+pixman (0.30.0-3) sid; urgency=low
+
+ * Increase timeout for the alpha-loop test. That will hopefully let it pass
+   on the mips buildd.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 03 Aug 2013 10:24:29 +0200
+
+pixman (0.30.0-2) sid; urgency=low
+
+ * Disable silent Makefile
 rules.
+ * Disable arm iwmmxt fast paths. It breaks the build.
+ * Fix matrix-test on big endian (patch from Siarhei Siamashka).
+

+ -- Julien Cristau <jcristau@debian.org> Sat, 27 Jul 2013 21:40:48 +0200
+
+pixman (0.30.0-1) sid; urgency=low
+
+ [Maarten Lankhorst, Cyril Brulebois, Julien Cristau]
+ * New upstream release.
+
+ -- Julien Cristau <jcristau@debian.org> Fri, 26 Jul 2013 14:58:25 +0200
+
+pixman (0.26.0-4) sid; urgency=high
+
+ * Fix for CVE-2013-1591 (stack-based buffer overflow), cherry-picked from
+   0.27.4 (closes: #700308).
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 18 Feb 2013 19:58:33 +0100
+
+pixman (0.26.0-3) unstable; urgency=low
+
+ * Pass LS_CFLAGS=" " to configure to prevent -march=loongson2f from
+   being passed to gcc, which would break on loongson2e (see fdo bug
+   #51451). This fixes the test suite failures on mipsel, and should
+   avoid any crashes depending on user systems.
+
+ -- Cyril Brulebois <kibi@debian.org> Wed, 27
 Jun 2012 12:11:54 +0200
+
+pixman (0.26.0-2) unstable; urgency=low
+
+ * Cherry-pick from upstream master branch to fix FTBFS on *i386:
+   - da6193b1fc “mmx: add missing _mm_empty calls”
+
+ -- Cyril Brulebois <kibi@debian.org> Fri, 15 Jun 2012 01:25:20 +0200
+
+pixman (0.26.0-1) unstable; urgency=low
+
+ * New upstream release.
+
+ -- Cyril Brulebois <kibi@debian.org> Fri, 15 Jun 2012 00:16:47 +0200
+
+pixman (0.25.6-1) experimental; urgency=low
+
+ * New upstream release candidate.
+ * Remove demos/parrot.jpg before building the source package to avoid
+   “binary file contents changed” until it's shipped in the upstream
+   tarball.
+
+ -- Cyril Brulebois <kibi@debian.org> Sun, 20 May 2012 17:56:35 +0200
+

+pixman (0.25.2-1) experimental; urgency=low
+
+ * New upstream release candidate.
+ * Add new symbols and bump shlibs accordingly:
+   - pixman_region32_clear
+   - pixman_region_clear
+
+ -- Cyril Brulebois <kibi@debian.org> Fri, 09 Mar 2012 13:17:16 +0100
+
+pixman
 (0.24.4-1) unstable; urgency=low
+
+ * New upstream release
+   - Revert "Reject trapezoids where top (botttom) is above (below) the
+   edges" (closes: #656682)
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 09 Feb 2012 21:16:47 +0100
+
+pixman (0.24.2-1) unstable; urgency=low
+
+ * New upstream release:
+   - Stable bug fix release from the 0.24 branch.
+
+ -- Cyril Brulebois <kibi@debian.org> Thu, 19 Jan 2012 12:22:54 +0100
+
+pixman (0.24.0-1) unstable; urgency=low
+
+ * New upstream release.
+
+ -- Cyril Brulebois <kibi@debian.org> Mon, 07 Nov 2011 18:13:47 +0100
+
+pixman (0.23.8-1) unstable; urgency=low
+
+ * New upstream release.
+
+ -- Cyril Brulebois <kibi@debian.org> Tue, 01 Nov 2011 12:29:16 +0100
+
+pixman (0.23.6-1) experimental; urgency=low
+
+ [Rico Tzschichholz]
+ * New upstream release.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 22 Oct 2011 11:09:04 +0200
+
+pixman (0.23.2-1) experimental; urgency=low
+
+ * New upstream release.
+ * Enable

```
 parallel building (by passing --parallel to dh $@).
+
+ -- Cyril Brulebois <kibi@debian.org>  Tue, 05 Jul 2011 01:37:27 +0200
+
+pixman (0.22.0-1) unstable; urgency=low
+
+  * Team upload.
+
+  [ Steve Langasek ]
+  * Build for multiarch.
+
+  [ Julien Cristau ]
+  * Bump Standards-Version to 3.9.2.
+  * New upstream release (no changes from 0.21.8 except for the version bump).
+
+ -- Julien Cristau <jcristau@debian.org>  Sun, 12 Jun 2011 17:02:01 +0200
+
+pixman (0.21.8-1) unstable; urgency=low
+
+  * New upstream release.
+  * As seen in the upstream announcement: “When this version of pixman is
+    used with the git version of the X server, trapezoid rendering will be
+    corrupted. This is a known bug in the X server.”
+  * This new release should fix the FTBFS on big endian machines, tests
+    were failing due to missing swapping (Closes: #622211).
+
+ -- Cyril Brulebois <kibi@debian.org>  Fri, 29 Apr 2011 17:53:12 +0200
+
+pixman (0.21.6-2) unstable; urgency=low
+
+  * Upload
 to unstable.
+
+ -- Cyril Brulebois <kibi@debian.org>  Sun, 10 Apr 2011 23:08:36 +0200
+
+pixman (0.21.6-1) experimental; urgency=low
+
+  * New upstream release.
+  * Update symbols file with new symbols.
+  * Bump shlibs accordingly.
+  * Wrap Build-Depends.
+  * Remove libpixman1-dev from Conflicts, last seen in etch!
+  * Update Uploaders list. Thanks, David!
+  * Switch to dh:
+    - Use debhelper 8.
+    - Use dh-autoreconf.
+    - Kill .la files.
+    - Switch dh_install from --list-missing to --fail-missing for
```

+   additionaly safety.
+ * Add a quilt series placeholder file.
+ * Bump Standards-Version to 3.9.1 (no changes needed).
+
+ -- Cyril Brulebois <kibi@debian.org> Wed, 09 Mar 2011 04:08:02 +0100
+
+pixman (0.21.4-2) unstable; urgency=low
+
+ * Upload to unstable.
+
+ -- Cyril Brulebois <kibi@debian.org> Sun, 06 Feb 2011 05:31:10 +0100
+
+pixman (0.21.4-1) experimental; urgency=low
+
+ * New upstream release.
+ * Update debian/copyright from upstream's COPYING.
+
+
 -- Cyril Brulebois <kibi@debian.org> Wed, 19 Jan 2011 20:31:26 +0100
+
+pixman (0.21.2-1) experimental; urgency=low
+
+ * New upstream release.
+ * Update debian/copyright from upstream's COPYING.
+
+ -- Cyril Brulebois <kibi@debian.org> Wed, 17 Nov 2010 15:56:46 +0100
+
+pixman (0.20.0-1) experimental; urgency=low
+
+ * New upstream release.
+
+ -- Cyril Brulebois <kibi@debian.org> Sat, 06 Nov 2010 10:00:54 +0100
+
+pixman (0.19.6-1) experimental; urgency=low
+
+ * New upstream release.
+ * Bump SHLIBS_VERSION from 0.18.0 to 0.19.4 for newly-added functions.
+ * Update symbols file with newly-added functions.
+ * Add -c4 to the dh_makeshlibs call, to ensure the build breaks if
+   unexpected symbol-related changes happened.
+ * As of pixman-0.19.2-5-g5b99710, Gtk+ is auto-detected, make sure not
+   to pick it accidentally, by passing --disable-gtk. (That's only for
+   test purposes, but would require pixman-1 itself.)
+ * Enable the testsuite.
+ * Add myself
 to Uploaders.
+
+ -- Cyril Brulebois <kibi@debian.org> Wed, 27 Oct 2010 23:14:00 +0200

+
+pixman (0.18.4-1) experimental; urgency=low
+
+ [Robert Hooker]
+ * New upstream stable release.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 06 Sep 2010 21:15:07 +0200
+
+pixman (0.18.2-1) experimental; urgency=low
+
+ * New upstream stable release. Changes since 0.18.0:
+   - b48d8b5... Pre-release version bump to 0.18.2
+   - 970c183... Add macros for thread local storage on MinGW 32
+   - 61ff1a3... Don't use __thread on MinGW.
+   - f973be4... Don't consider indexed formats opaque.
+   - 34fb385... Add missing HAVE_CONFIG_H guards for config.h inclusion
+   - 38928af... Update README to mention the pixman mailing list
+   - 6649842... [mmx] Fix mask creation bugs
+   - d197dc5... Fixes for pthread thread local storage.
+   - 9babaab... Fix uninitialized cache when pthreads are used
+   - 4fe0a40... Visual Studio 2010 includes stdint.h
+   - 9a46edd... Post-release version
 bump to 0.18.1
+
+ -- Robert Hooker <sarvatt@ubuntu.com> Fri, 14 May 2010 13:03:42 -0400
+
+pixman (0.18.0-1) experimental; urgency=low
+
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+   good reason. Thanks, Colin Watson!
+ * Remove myself from Uploaders
+ * New upstream release (closes: #579014).
+ * Update symbols file for new API, bump shlibs.
+ * Drop pixman-arm-don-t-use-env-vars-to-get-hwcap-platform.patch, obsolete.
+
+ -- Julien Cristau <jcristau@debian.org> Tue, 11 May 2010 14:16:09 +0200
+
+pixman (0.16.4-1) unstable; urgency=low
+
+ * New upstream release.
+ * Add dependencies on ${misc:Depends} (lintian).
+ * Bump Standards-Version to 3.8.3.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 02 Jan 2010 11:26:29 +0000
+
+pixman (0.16.2-1) unstable; urgency=low
+
+ * New upstream release (closes: #546849).

+ * Upload to unstable.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 28 Sep 2009 18:12:47 +0200
+
+pixman (0.15.20-1) experimental;
 urgency=low
+
+ * New upstream release candidate.
+ * Bump shlibs and update symbols file for
+   pixman_disable_out_of_bounds_workaround and new formats.
+ * Add patch to disable use of env vars to force hwcap and platform on arm.
+ * Add README.source with a pointer to the quilt package.
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 23 Aug 2009 12:44:59 +0200
+
+pixman (0.15.14-1) experimental; urgency=low
+
+ * Update debian/copyright from upstream COPYING (closes: #519078). Thanks,
+   Jo Shields!
+ * New upstream development release.
+ * Enable arm simd, we can do runtime detection now.
+ * Update symbols file and bump shlibs for new version.
+ * Run dh_shlibdeps after dh_installdeb to avoid a dpkg-shlibdeps warning.
+ * Move libpixman-1-0-dbg to new 'debug' section.
+ * Add ~ to pixman_image_set_source_clipping version in symbols file, to make
+   lintian happy.
+ * Don't handle nostrip explicitly in debian/rules, dh_strip does that for
+   us.
+ *
 Use filter instead of findstring for DEB_BUILD_OPTIONS parsing, as
+   standardized by policy 3.8.0.
+ * Handle parallel=n in DEB_BUILD_OPTIONS.
+ * Bump Standards-Version to 3.8.2.
+ * Version the build-dep on debhelper to silence lintian.
+
+ -- Julien Cristau <jcristau@debian.org> Wed, 24 Jun 2009 21:13:07 +0200
+
+pixman (0.14.0-1) unstable; urgency=low
+
+ [Brice Goglin]
+ * Update upstream URL in debian/copyright.
+ * Install the upstream ChangeLog.
+
+ [Julien Cristau]
+ * New upstream release.
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 15 Feb 2009 23:01:14 +0100
+

```
+pixman (0.13.2-1) experimental; urgency=low
+
+  [ Timo Aaltonen ]
+  * New upstream release.
+  * Update libpixman-1-0.symbols with new symbols.
+
+  [ Julien Cristau ]
+  * Don't use ARM SIMD code.  It doesn't do runtime detection, and will only
+    work on ARMv6.
+  * Fix shlibs for the udeb.
+
+ -- Julien Cristau <jcristau@debian.org>  Sun, 04 Jan 2009 21:39:31 +0100
+
+pixman (0.12.0-1) experimental;
 urgency=low
+
+  * New upstream release.
+  * Bump pixman_format_supported_source's version in the symbols file, depth
+    30 formats were added in 0.11.10.
+  * Bump shlibs to 0.11.10 as well.
+
+ -- Julien Cristau <jcristau@debian.org>  Sun, 21 Sep 2008 17:01:01 +0200
+
+pixman (0.11.8-1) experimental; urgency=low
+
+  * New upstream development release.
+  * Bump versions for pixman_image_create_bits and
+    pixman_format_supported_destination, as some formats were added in 0.11.6.
+
+ -- Julien Cristau <jcristau@debian.org>  Fri, 18 Jul 2008 15:21:17 +0200
+
+pixman (0.11.6-1) experimental; urgency=low
+
+  * New upstream development release.
+  * Bump shlibs and update symbols files.
+
+ -- Julien Cristau <jcristau@debian.org>  Tue, 15 Jul 2008 21:36:11 +0200
+
+pixman (0.10.0-2) unstable; urgency=low
+
+  [ Frans Pop ]
+  * Add libpixman-1-0-udeb (needed for cairo).  Closes: #476480.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 17 Apr 2008 14:08:20 +0200
+
+pixman
 (0.10.0-1) unstable; urgency=low
+
```

+ * New upstream release.
+ * Bump shlibs to 0.10.0.
+ * Run autoreconf at build-time.
+   Build-depend on automake, autoconf, libtool and pkg-config. Drop patch
+   for maintainer mode, and drop build-dep on quilt and corresponding code in
+   debian/rules. Add new rules autogen and config, where we run autoreconf
+   and configure, respectively. Update clean rule to remove files generated
+   by autogen.
+ * Add symbols file for libpixman-1-0.
+ * Bump Standards-Version to 3.7.3.
+ * Add Vcs-Git and Vcs-Browser control fields.
+
+ -- Julien Cristau <jcristau@debian.org> Fri, 04 Apr 2008 14:31:30 +0200
+
+pixman (0.9.6-1) unstable; urgency=low
+
+ * New upstream release (closes: #452734).
+   + 02_no-sse.diff: remove, fix included upstream;
+   + 03_fbFetchTransformed_64bit_fix.diff: remove, 64bit issues should be
+   fixed too.
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 25 Nov 2007 00:41:31 +0100
+
+pixman (0.9.5-3) unstable;
 urgency=low
+
+ * Add patch by Francis Whittle from upstream bug#12398
+   (https://bugs.freedesktop.org/attachment.cgi?id=11896) to fix arithmetic
+   bug in fbFetchTransformed (causing X crashes on 64bit); closes: #444457.
+
+ -- Julien Cristau <jcristau@debian.org> Tue, 16 Oct 2007 09:52:16 +0200
+
+pixman (0.9.5-2) unstable; urgency=high
+
+ * High urgency for RC bugfix.
+ * Don't use -msse, to prevent gcc 4.2 from generating SSE instructions for
+   its builtin functions, the X server from going SIGILL on CPUs supporting
+   MMX but not SSE, and us from losing (closes: #442829).
+ * Enable maintainer mode in configure.ac.
+
+ -- Julien Cristau <jcristau@debian.org> Wed, 19 Sep 2007 23:21:46 +0200
+
+pixman (0.9.5-1) unstable; urgency=low
+
+ * New upstream release (no actual changes since 0.9.4-2, just new upstream
+   tarball).
+ * Add watch file.
+ * Upload to unstable for X.Org 7.3.

```
+
+ -- Julien Cristau <jcristau@debian.org>  Wed, 05 Sep 2007 21:43:58 +0200
+
+pixman
 (0.9.4-2) experimental; urgency=low
+
+  * Update from git master branch (commit 8ff7213f).
+  * Bump shlibs.
+
+ -- Julien Cristau <jcristau@debian.org>  Mon, 03 Sep 2007 17:11:24 +0200
+
+pixman (0.9.4-1) experimental; urgency=low
+
+  * New upstream version
+  * Update packaging for the name change. It's now pixman-1, so we use
+    libpixman-1-0 for the package names
+  * Add myself to uploaders
+  * Pull upstream fix for the .pc file for the library name change
+
+ -- David Nusinow <dnusinow@debian.org>  Thu, 09 Aug 2007 22:15:45 -0400
+
+pixman (0.9.3~git20070729-1) experimental; urgency=low
+
+  * First upload (closes: 428774).
+
+ -- Julien Cristau <jcristau@debian.org>  Wed, 01 Aug 2007 13:24:36 +0200
--- pixman-0.40.0.orig/debian/control
+++ pixman-0.40.0/debian/control
@@ -0,0 +1,49 @@
+Source: pixman
+Section: devel
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Uploaders: Andreas Boll <aboll@debian.org>
+Build-Depends:
+ debhelper-compat
 (= 13),
+ pkg-config,
+ quilt,
+Standards-Version: 4.2.1
+Vcs-Git: https://salsa.debian.org/xorg-team/lib/pixman.git
+Vcs-Browser: https://salsa.debian.org/xorg-team/lib/pixman
+Homepage: http://pixman.org/
+
+Package: libpixman-1-0
+Section: libs
+Architecture: any
+Depends:
```

```
+ ${shlibs:Depends},
+ ${misc:Depends},
+Pre-Depends: ${misc:Pre-Depends}
+Multi-Arch: same
+Description: pixel-manipulation library for X and cairo
+ A library for manipulating pixel regions -- a set of Y-X banded
+ rectangles, image compositing using the Porter/Duff model
+ and implicit mask generation for geometric primitives including
+ trapezoids, triangles, and rectangles.
+
+Package: libpixman-1-0-udeb
+Section: debian-installer
+Package-Type: udeb
+Architecture: any
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+Description: pixel-manipulation library for X and cairo
+ This package contains a minimal set of libraries needed for the Debian
+ installer.  Do not install it on a normal system.
+
+Package:
 libpixman-1-dev
+Section: libdevel
+Architecture: any
+Depends:
+ libpixman-1-0 (= ${binary:Version}),
+ ${misc:Depends},
+Multi-Arch: same
+Description: pixel-manipulation library for X and cairo (development files)
+ Development libraries, header files and documentation needed by
+ programs that want to compile with the Cairo/X pixman library.
--- pixman-0.40.0.orig/debian/copyright
+++ pixman-0.40.0/debian/copyright
@@ -0,0 +1,47 @@
+This package was downloaded from
+https://xorg.freedesktop.org/releases/individual/lib/
+
+Debian packaging by Julien Cristau <jcristau@debian.org>, 18 May 2007.
+
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+
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```

```
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+ */
--- pixman-0.40.0.orig/debian/libpixman-1-0-udeb.install
+++ pixman-0.40.0/debian/libpixman-1-0-udeb.install
@@ -0,0 +1 @@
+usr/lib/*/libpixman-1.so.* /usr/lib
--- pixman-0.40.0.orig/debian/libpixman-1-0.install
+++ pixman-0.40.0/debian/libpixman-1-0.install
@@
 -0,0 +1 @@
+usr/lib/*/libpixman-1.so.*
--- pixman-0.40.0.orig/debian/libpixman-1-0.lintian-overrides
+++ pixman-0.40.0/debian/libpixman-1-0.lintian-overrides
@@ -0,0 +1,2 @@
```

```
+libpixman-1-0: symbols-declares-dependency-on-other-package libpixman-1-0-private
+
--- pixman-0.40.0.orig/debian/libpixman-1-0.symbols
+++ pixman-0.40.0/debian/libpixman-1-0.symbols
@@ -0,0 +1,151 @@
+libpixman-1.so.0 libpixman-1-0 #MINVER#
+| libpixman-1-0-private
+ _pixman_internal_only_get_implementation@Base 0 1
+ pixman_add_trapezoids@Base 0
+ pixman_add_traps@Base 0
+ pixman_add_triangles@Base 0.21.6
+ pixman_blt@Base 0
+ pixman_composite_glyphs@Base 0.27.2
+ pixman_composite_glyphs_no_mask@Base 0.27.2
+ pixman_composite_trapezoids@Base 0.21.6
+ pixman_composite_triangles@Base 0.21.6
+ pixman_compute_composite_region@Base 0
+ pixman_disable_out_of_bounds_workaround@Base 0.15.16
+ pixman_edge_init@Base 0
+ pixman_edge_step@Base 0
+ pixman_f_transform_bounds@Base 0.13.2
+ pixman_f_transform_from_pixman_transform@Base
 0.13.2
+ pixman_f_transform_init_identity@Base 0.13.2
+ pixman_f_transform_init_rotate@Base 0.13.2
+ pixman_f_transform_init_scale@Base 0.13.2
+ pixman_f_transform_init_translate@Base 0.13.2
+ pixman_f_transform_invert@Base 0.13.2
+ pixman_f_transform_multiply@Base 0.13.2
+ pixman_f_transform_point@Base 0.13.2
+ pixman_f_transform_point_3d@Base 0.13.2
+ pixman_f_transform_rotate@Base 0.13.2
+ pixman_f_transform_scale@Base 0.13.2
+ pixman_f_transform_translate@Base 0.13.2
+ pixman_fill@Base 0
+ pixman_filter_create_separable_convolution@Base 0.30.0
+ pixman_format_supported_destination@Base 0.15.16
+ pixman_format_supported_source@Base 0.15.16
+ pixman_glyph_cache_create@Base 0.27.2
+ pixman_glyph_cache_destroy@Base 0.27.2
+ pixman_glyph_cache_freeze@Base 0.27.2
+ pixman_glyph_cache_insert@Base 0.27.2
+ pixman_glyph_cache_lookup@Base 0.27.2
+ pixman_glyph_cache_remove@Base 0.27.2
+ pixman_glyph_cache_thaw@Base 0.27.2
+ pixman_glyph_get_extents@Base 0.27.2
+ pixman_glyph_get_mask_format@Base
```

0.27.2
+ pixman_image_composite@Base 0.15.14
+ pixman_image_composite32@Base 0.18.0
+ pixman_image_create_bits@Base 0.15.12
+ pixman_image_create_bits_no_clear@Base 0.27.4
+ pixman_image_create_conical_gradient@Base 0
+ pixman_image_create_linear_gradient@Base 0
+ pixman_image_create_radial_gradient@Base 0
+ pixman_image_create_solid_fill@Base 0
+ pixman_image_fill_boxes@Base 0.18.0
+ pixman_image_fill_rectangles@Base 0.15.14
+ pixman_image_get_component_alpha@Base 0.19.6
+ pixman_image_get_data@Base 0
+ pixman_image_get_depth@Base 0
+ pixman_image_get_destroy_data@Base 0.18.0
+ pixman_image_get_format@Base 0.19.6
+ pixman_image_get_height@Base 0
+ pixman_image_get_stride@Base 0
+ pixman_image_get_width@Base 0
+ pixman_image_ref@Base 0
+ pixman_image_set_accessors@Base 0
+ pixman_image_set_alpha_map@Base 0
+ pixman_image_set_clip_region32@Base 0.11.2
+ pixman_image_set_clip_region@Base 0
+ pixman_image_set_component_alpha@Base 0
+ pixman_image_set_destroy_function@Base
0.15.12
+ pixman_image_set_dither@Base 0.40.0
+ pixman_image_set_dither_offset@Base 0.40.0
+ pixman_image_set_filter@Base 0.30.0
+ pixman_image_set_has_client_clip@Base 0
+ pixman_image_set_indexed@Base 0
+ pixman_image_set_repeat@Base 0
+ pixman_image_set_source_clipping@Base 0.9.4-2~
+ pixman_image_set_transform@Base 0
+ pixman_image_unref@Base 0
+ pixman_line_fixed_edge_init@Base 0
+ pixman_rasterize_edges@Base 0
+ pixman_rasterize_trapezoid@Base 0
+ pixman_region32_clear@Base 0.25.2
+ pixman_region32_contains_point@Base 0.11.2
+ pixman_region32_contains_rectangle@Base 0.11.2
+ pixman_region32_copy@Base 0.11.2
+ pixman_region32_equal@Base 0.11.2
+ pixman_region32_extents@Base 0.11.2
+ pixman_region32_fini@Base 0.11.2
+ pixman_region32_init@Base 0.11.2
+ pixman_region32_init_from_image@Base 0.18.0

+ pixman_region32_init_rect@Base 0.11.2
+ pixman_region32_init_rects@Base 0.11.2
+ pixman_region32_init_with_extents@Base 0.11.2
+ pixman_region32_intersect@Base 0.11.2
+ pixman_region32_intersect_rect@Base
0.19.6
+ pixman_region32_inverse@Base 0.11.2
+ pixman_region32_n_rects@Base 0.11.2
+ pixman_region32_not_empty@Base 0.11.2
+ pixman_region32_rectangles@Base 0.11.2
+ pixman_region32_reset@Base 0.11.2
+ pixman_region32_selfcheck@Base 0.11.2
+ pixman_region32_subtract@Base 0.11.2
+ pixman_region32_translate@Base 0.11.2
+ pixman_region32_union@Base 0.11.2
+ pixman_region32_union_rect@Base 0.11.2
+ pixman_region_clear@Base 0.25.2
+ pixman_region_contains_point@Base 0
+ pixman_region_contains_rectangle@Base 0
+ pixman_region_copy@Base 0
+ pixman_region_equal@Base 0
+ pixman_region_extents@Base 0
+ pixman_region_fini@Base 0
+ pixman_region_init@Base 0
+ pixman_region_init_from_image@Base 0.18.0
+ pixman_region_init_rect@Base 0
+ pixman_region_init_rects@Base 0
+ pixman_region_init_with_extents@Base 0
+ pixman_region_intersect@Base 0
+ pixman_region_intersect_rect@Base 0.19.6
+ pixman_region_inverse@Base 0
+ pixman_region_n_rects@Base 0
+ pixman_region_not_empty@Base
0
+ pixman_region_rectangles@Base 0
+ pixman_region_reset@Base 0
+ pixman_region_selfcheck@Base 0
+ pixman_region_set_static_pointers@Base 0
+ pixman_region_subtract@Base 0
+ pixman_region_translate@Base 0
+ pixman_region_union@Base 0
+ pixman_region_union_rect@Base 0
+ pixman_sample_ceil_y@Base 0
+ pixman_sample_floor_y@Base 0
+ pixman_transform_bounds@Base 0.13.2
+ pixman_transform_from_pixman_f_transform@Base 0.13.2
+ pixman_transform_init_identity@Base 0.13.2
+ pixman_transform_init_rotate@Base 0.13.2

```
+ pixman_transform_init_scale@Base 0.13.2
+ pixman_transform_init_translate@Base 0.13.2
+ pixman_transform_invert@Base 0.13.2
+ pixman_transform_is_identity@Base 0.13.2
+ pixman_transform_is_int_translate@Base 0.13.2
+ pixman_transform_is_inverse@Base 0.13.2
+ pixman_transform_is_scale@Base 0.13.2
+ pixman_transform_multiply@Base 0.13.2
+ pixman_transform_point@Base 0.13.2
+ pixman_transform_point_31_16@Base 0 1
+ pixman_transform_point_31_16_3d@Base 0 1
+ pixman_transform_point_31_16_affine@Base
 0 1
+ pixman_transform_rotate@Base 0.13.2
+ pixman_transform_scale@Base 0.13.2
+ pixman_transform_translate@Base 0.13.2
+ pixman_transform_point_3d@Base 0
+ pixman_version@Base 0.10.0
+ pixman_version_string@Base 0.10.0
--- pixman-0.40.0.orig/debian/libpixman-1-dev.install
+++ pixman-0.40.0/debian/libpixman-1-dev.install
@@ -0,0 +1,4 @@
+usr/lib/*/libpixman-1.so
+usr/lib/*/libpixman-1.a
+usr/lib/*/pkgconfig
+usr/include/pixman-1
--- pixman-0.40.0.orig/debian/patches/Avoid-integer-overflow-leading-to-out-of-bounds-writ.diff
+++ pixman-0.40.0/debian/patches/Avoid-integer-overflow-leading-to-out-of-bounds-writ.diff
@@ -0,0 +1,32 @@
+From: Matt Turner <mattst88@gmail.com>
+Date: Wed, 2 Nov 2022 12:07:32 -0400
+Subject: Avoid integer overflow leading to out-of-bounds write
+Origin: https://gitlab.freedesktop.org/pixman/pixman/-/commit/a1f88e842e0216a5b4df1ab023caebe33c101395
+Bug: https://gitlab.freedesktop.org/pixman/pixman/-/issues/63
+Bug-Debian: https://bugs.debian.org/1023427
+Bug-Debian-Security:
 https://security-tracker.debian.org/tracker/CVE-2022-44638
+
+Thanks to Maddie Stone and Google's Project Zero for discovering this
+issue, providing a proof-of-concept, and a great analysis.
+
+Closes: https://gitlab.freedesktop.org/pixman/pixman/-/issues/63
+---
+ pixman/pixman-trap.c | 2 +-
+ 1 file changed, 1 insertion(+), 1 deletion(-)
+
+diff --git a/pixman/pixman-trap.c b/pixman/pixman-trap.c
+index 91766fdbfca0..7560405ee2e4 100644
```

```
+--- a/pixman/pixman-trap.c
++++ b/pixman/pixman-trap.c
+@@ -74,7 +74,7 @@ pixman_sample_floor_y (pixman_fixed_t y,
+
+     if (f < Y_FRAC_FIRST (n))
+     {
+- if (pixman_fixed_to_int (i) == 0x8000)
++ if (pixman_fixed_to_int (i) == 0xffff8000)
+  {
+      f = 0; /* saturate */
+  }
+--
+2.37.2
+
--- pixman-0.40.0.orig/debian/patches/series
+++ pixman-0.40.0/debian/patches/series
@@ -0,0 +1,2 @@
+test-increase-timeout.diff
+Avoid-integer-overflow-leading-to-out-of-bounds-writ.diff
--- pixman-0.40.0.orig/debian/patches/test-increase-timeout.diff
+++
 pixman-0.40.0/debian/patches/test-increase-timeout.diff
@@ -0,0 +1,13 @@
+Index: pixman/test/alpha-loop.c
+===================================================================
+--- pixman.orig/test/alpha-loop.c 2013-07-26 14:26:43.905457549 +0200
++++ pixman/test/alpha-loop.c 2013-08-03 10:21:53.498601016 +0200
+@@ -21,7 +21,7 @@
+     pixman_image_t *d = pixman_image_create_bits (PIXMAN_a8r8g8b8, WIDTH, HEIGHT, dest, WIDTH * 4);
+     pixman_image_t *s = pixman_image_create_bits (PIXMAN_a2r10g10b10, WIDTH, HEIGHT, src, WIDTH *
4);
+
+-    fail_after (5, "Infinite loop detected: 5 seconds without progress\n");
++    fail_after (50, "Infinite loop detected: 50 seconds without progress\n");
+
+     pixman_image_set_alpha_map (s, a, 0, 0);
+     pixman_image_set_alpha_map (a, s, 0, 0);
--- pixman-0.40.0.orig/debian/rules
+++ pixman-0.40.0/debian/rules
@@ -0,0 +1,37 @@
+#!/usr/bin/make -f
+
+PACKAGE = libpixman-1-0
+SHLIBS  = 0.40.0
+
+export DEB_BUILD_MAINT_OPTIONS
+ = hardening=+all
+
```

```
+# Disable Gtk+ autodetection:
+override_dh_auto_configure:
+ # also avoid loongson2f optimizations on mipsel, see 0.26.0-3
+ # changelog entry:
+ LS_CFLAGS=" " dh_auto_configure -- --disable-gtk \
+   --disable-arm-iwmmxt
+
+# Install in debian/tmp to retain control through dh_install:
+override_dh_auto_install:
+ dh_auto_install --destdir=debian/tmp
+
+# Kill *.la files, and forget no-one:
+override_dh_install:
+ find debian/tmp -name '*.la' -delete
+ dh_install
+
+# Debug package:
+override_dh_strip:
+ dh_strip -p$(PACKAGE) --dbgsym-migration="$(PACKAGE)-dbg (<< 0.34.0-2~)"
+ dh_strip -N$(PACKAGE)
+
+# Shlibs:
+override_dh_makeshlibs:
+ dh_makeshlibs -p$(PACKAGE) --add-udeb $(PACKAGE)-udeb -V"$(PACKAGE) (>= $(SHLIBS))" -- -c4
+
+override_dh_auto_test:
+ dh_auto_test -- VERBOSE=1
+
+%:
+ dh $@ --with quilt --builddirectory=build/
--- pixman-0.40.0.orig/debian/source/format
+++ pixman-0.40.0/debian/source/format
@@ -0,0 +1 @@
+1.0
--- pixman-0.40.0.orig/debian/watch
+++
 pixman-0.40.0/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/pixman
+version=3
+https://xorg.freedesktop.org/releases/individual/lib/ pixman-(.*)\.tar\.gz
--- pixman-0.40.0.orig/pixman/make-srgb.pl
+++ pixman-0.40.0/pixman/make-srgb.pl
@@ -0,0 +1,115 @@
+#!/usr/bin/perl -w
+
+use strict;
+
```

```
+sub linear_to_srgb
+{
+    my ($c) = @_;
+
+    if ($c < 0.0031308)
+    {
+ return $c * 12.92;
+    }
+    else
+    {
+ return 1.055 * $c ** (1.0/2.4) - 0.055;
+    }
+}
+
+sub srgb_to_linear
+{
+    my ($c) = @_;
+
+    if ($c < 0.04045)
+    {
+ return $c / 12.92;
+    }
+    else
+    {
+ return (($c + 0.055) / 1.055) ** 2.4
+    }
+}
+
+my @linear_to_srgb;
+for my $linear (0 .. 4095)
+{
+    my $srgb = int(linear_to_srgb($linear / 4095.0) * 255.0 + 0.5);
+    push @linear_to_srgb, $srgb;
+}
+
+my @srgb_to_linear;
+for my $srgb (0 .. 255)
+{
+    my $linear = int(srgb_to_linear($srgb / 255.0) * 65535.0 + 0.5);
+    push @srgb_to_linear, $linear;
+}
+
+# Ensure that
 we have a lossless sRGB and back conversion loop.
+# some of the darkest shades need a little bias -- maximum is just
+# 5 increments out of 16. This gives us useful property with
+# least amount of error in the sRGB-to-linear table, and keeps the actual
+# table lookup in the other direction as simple as possible.
```

```
+for my $srgb (0 .. $#srgb_to_linear)
+{
+    my $add = 0;
+    while (1)
+    {
+ my $linear = $srgb_to_linear[$srgb];
+ my $srgb_lossy = $linear_to_srgb[$linear >> 4];
+ last if $srgb == $srgb_lossy;
+
+ # Add slight bias to this component until it rounds correctly
+ $srgb_to_linear[$srgb] ++;
+ $add ++;
+    }
+    die "Too many adds at $srgb" if $add > 5;
+}
+
+print <<"PROLOG";
+/* WARNING: This file is generated by $0.
+ * Please edit that file instead of this one.
+ */
+
+#include <stdint.h>
+
+#ifdef HAVE_CONFIG_H
+#include <config.h>
+#endif
+
+#include "pixman-private.h"
+
+PROLOG
+
+print "const uint8_t linear_to_srgb[" . @linear_to_srgb . "] =\n";
+print "{\n";
+for
 my $linear (0 .. $#linear_to_srgb)
+{
+    if (($linear % 10) == 0)
+    {
+ print "\t";
+    }
+    print sprintf("%d, ", $linear_to_srgb[$linear]);
+    if (($linear % 10) == 9)
+    {
+ print "\n";
+    }
+}
+print "\n};\n";
+print "\n";
```

```
+
+print "const uint16_t srgb_to_linear[" . @srgb_to_linear . "] =\n";
+print "{\n";
+for my $srgb (0 .. $#srgb_to_linear)
+{
+    if (($srgb % 10) == 0)
+    {
+ print "\t";
+    }
+    print sprintf("%d, ", $srgb_to_linear[$srgb]);
+    if (($srgb % 10) == 9)
+    {
+ print "\n";
+    }
+}
+print "\n};\n";
+
--- pixman-0.40.0.orig/pixman/pixman-arm-detect-win32.asm
+++ pixman-0.40.0/pixman/pixman-arm-detect-win32.asm
@@ -0,0 +1,21 @@
+    area pixman_msvc, code, readonly
+
+    export  pixman_msvc_try_arm_simd_op
+
+pixman_msvc_try_arm_simd_op
+    ;; I don't think the msvc arm asm knows how to do SIMD insns
+    ;; uqadd8 r3,r3,r3
+    dcd 0xe6633f93
+    mov pc,lr
+    endp
+
+    export  pixman_msvc_try_arm_neon_op
+
+pixman_msvc_try_arm_neon_op
+
+   ;; I don't think the msvc arm asm knows how to do NEON insns
+    ;; veor d0,d0,d0
+    dcd 0xf3000110
+    mov pc,lr
+    endp
+
+    end
--- pixman-0.40.0.orig/pixman/rounding.txt
+++ pixman-0.40.0/pixman/rounding.txt
@@ -0,0 +1,168 @@
+*** General notes about rounding
+
+Suppose a function is sampled at positions [k + o] where k is an
```

+integer and o is a fractional offset 0 <= o < 1.
+
+To round a value to the nearest sample, breaking ties by rounding up,
+we can do this:
+
+   round(x) = floor(x - o + 0.5) + o
+
+That is, first subtract o to let us pretend that the samples are at
+integer coordinates, then add 0.5 and floor to round to nearest
+integer, then add the offset back in.
+
+To break ties by rounding down:
+
+   round(x) = ceil(x - o - 0.5) + o
+
+or if we have an epsilon value:
+
+   round(x) = floor(x - o + 0.5 - e) + o
+
+To always round *up* to the next sample:
+
+   round_up(x) = ceil(x - o) + o
+
+To always round *down* to the previous sample:
+
+   round_down(x)
 = floor(x - o) + o
+
+If a set of samples is stored in an array, you get from the sample
+position to an index by subtracting the position of the first sample
+in the array:
+
+   index(s) = s - first_sample
+
+
+*** Application to pixman
+
+In pixman, images are sampled with o = 0.5, that is, pixels are
+located midways between integers. We usually break ties by rounding
+down (i.e., "round towards north-west").
+
+
+-- NEAREST filtering:
+
+The NEAREST filter simply picks the closest pixel to the given
+position:
+
+   round(x) = floor(x - 0.5 + 0.5 - e) + 0.5 = floor (x - e) + 0.5

```
+
+The first sample of a pixman image has position 0.5, so to find the
+index in the pixel array, we have to subtract 0.5:
+
+    floor (x - e) + 0.5 - 0.5 = floor (x - e).
+
+Therefore a 16.16 fixed-point image location is turned into a pixel
+value with NEAREST filtering by doing this:
+
+    pixels[((y - e) >> 16) * stride + ((x - e) >> 16)]
+
+where stride is the number of pixels allocated
 per scanline and e =
+0x0001.
+
+
+-- CONVOLUTION filtering:
+
+A convolution matrix is considered a sampling of a function f at
+values surrounding 0. For example, this convolution matrix:
+
+ [a, b, c, d]
+
+is interpreted as the values of a function f:
+
+    a = f(-1.5)
+       b = f(-0.5)
+       c = f(0.5)
+       d = f(1.5)
+
+The sample offset in this case is o = 0.5 and the first sample has
+position s0 = -1.5. If the matrix is:
+
+       [a, b, c, d, e]
+
+the sample offset is o = 0 and the first sample has position s0 =
+-2.0. In general we have
+
+     s0 = (- width / 2.0 + 0.5).
+
+and
+
+     o = frac (s0)
+
+To evaluate f at a position between the samples, we round to the
+closest sample, and then we subtract the position of the first sample
+to get the index in the matrix:
+
```

+ f(t) = matrix[floor(t - o + 0.5) + o - s0]
+
+Note that in this case we break ties by rounding up.
+
+If we write s0 = m + o, where m is an integer, this is equivalent to
+
+ f(t)
 = matrix[floor(t - o + 0.5) + o - (m + o)]
+ = matrix[floor(t - o + 0.5 - m) + o - o]
+ = matrix[floor(t - s0 + 0.5)]
+
+The convolution filter in pixman positions f such that 0 aligns with
+the given position x. For a given pixel x0 in the image, the closest
+sample of f is then computed by taking (x - x0) and rounding that to
+the closest index:
+
+ i = floor ((x0 - x) - s0 + 0.5)
+
+To perform the convolution, we have to find the first pixel x0 whose
+corresponding sample has index 0. We can write x0 = k + 0.5, where k
+is an integer:
+
+ 0 = floor(k + 0.5 - x - s0 + 0.5)
+
+ = k + floor(1 - x - s0)
+
+ = k - ceil(x + s0 - 1)
+
+ = k - floor(x + s0 - e)
+
+ = k - floor(x - (width - 1) / 2.0 - e)
+
+And so the final formula for the index k of x0 in the image is:
+
+ k = floor(x - (width - 1) / 2.0 - e)
+
+Computing the result is then simply a matter of convolving all the
+pixels starting at k with all the samples in the matrix.
+
+
+--- SEPARABLE_CONVOLUTION
+
+For
 this filter, x is first rounded to one of n regularly spaced
+subpixel positions. This subpixel position determines which of n
+convolution matrices is being used.
+
+Then, as in a regular convolution filter, the first pixel to be used

```
+is determined:
+
+     k = floor (x - (width - 1) / 2.0 - e)
+
+and then the image pixels starting there are convolved with the chosen
+matrix. If we write x = xi + frac, where xi is an integer, we get
+
+ k = xi + floor (frac - (width - 1) / 2.0 - e)
+
+so the location of k relative to x is given by:
+
+    (k + 0.5 - x) = xi + floor (frac - (width - 1) / 2.0 - e) + 0.5 - x
+
+                  = floor (frac - (width - 1) / 2.0 - e) + 0.5 - frac
+
+which means the contents of the matrix corresponding to (frac) should
+contain width samplings of the function, with the first sample at:
+
+       floor (frac - (width - 1) / 2.0 - e) + 0.5 - frac
+     = ceil (frac - width / 2.0 - 0.5) + 0.5 - frac
+
+This filter is called separable because
 each of the k x k convolution
+matrices is specified with two k-wide vectors, one for each dimension,
+where each entry in the matrix is computed as the product of the
+corresponding entries in the vectors.
--- pixman-0.40.0.orig/test/Makefile.win32
+++ pixman-0.40.0/test/Makefile.win32
@@ -0,0 +1,61 @@
+default: all
+
+top_srcdir = ..
+include $(top_srcdir)/test/Makefile.sources
+include $(top_srcdir)/Makefile.win32.common
+
+TEST_LDADD = \
+ $(top_builddir)/pixman/$(CFG_VAR)/$(LIBRARY).lib \
+ $(CFG_VAR)/libutils.lib \
+ $(NULL)
+
+libutils_OBJECTS = $(patsubst %.c, $(CFG_VAR)/%.obj, $(libutils_sources))
+
+SOURCES = $(patsubst %,   %.c,              $(TESTPROGRAMS) $(OTHERPROGRAMS))
+OBJECTS = $(patsubst %.c, $(CFG_VAR)/%.obj, $(SOURCES))
+TESTS   = $(patsubst %,   $(CFG_VAR)/%.exe, $(TESTPROGRAMS))
+OTHERS  = $(patsubst %,   $(CFG_VAR)/%.exe, $(OTHERPROGRAMS))
+
+all: inform $(TESTS) $(OTHERS)
```

```
+
+check: inform $(TESTS)
+ @total=0 ; \
+ pass=0 ; \
+ skip=0 ; \
+ fail=0 ; \
+ for
 test in $(TESTS) ; \
+ do \
+  total=`expr $$total + 1` ; \
+  ./$$test ; \
+  r=$$? ; \
+  if test $$r -eq 0 ; \
+  then echo "PASS: $$test" ; \
+      pass=`expr $$pass + 1` ; \
+  elif test $$r -eq 77 ; \
+  then echo "SKIP: $$test" ; \
+      skip=`expr $$skip + 1` ; \
+  else echo "FAIL: $$test" ; \
+      fail=`expr $$fail + 1` ; \
+  fi ; \
+ done ; \
+
dashes="================================================================================
" ; \
+ echo "$$dashes" ; \
+ echo "Testsuite summary for pixman:" ; \
+ echo "$$dashes" ; \
+ echo "# TOTAL: $$total" ; \
+ echo "# PASS:  $$pass" ; \
+ echo "# SKIP:  $$skip" ; \
+ echo "# FAIL:  $$fail" ; \
+ echo "$$dashes" ; \
+ test $$fail -eq 0
+
+$(CFG_VAR)/libutils.lib: $(libutils_OBJECTS)
+ @$(AR) $(PIXMAN_ARFLAGS) -OUT:$@ $^
+
+$(CFG_VAR)/%.exe: $(CFG_VAR)/%.obj $(TEST_LDADD)
+ @$(LD) $(PIXMAN_LDFLAGS) -OUT:$@ $^
+
+$(top_builddir)/pixman/$(CFG_VAR)/$(LIBRARY).lib:
+ @$(MAKE) -C $(top_builddir)/pixman -f Makefile.win32
+
+.PHONY: all
 check
--- pixman-0.40.0.orig/test/fuzzer-find-diff.pl
+++ pixman-0.40.0/test/fuzzer-find-diff.pl
```

```
@@ -0,0 +1,75 @@
+#!/usr/bin/env perl
+
+$usage = "Usage:
+  fuzzer-find-diff.pl reference_binary new_binary [number_of_tests_to_run]
+
+The first two input arguments are the commands to run the test programs
+based on fuzzer_test_main() function from 'util.c' (preferably they should
+be statically compiled, this can be achieved via '--disable-shared' pixman
+configure option). The third optional argument is the number of test rounds
+to run (if not specified, then testing runs infinitely or until some problem
+is detected).
+
+Usage examples:
+  fuzzer-find-diff.pl ./blitters-test-with-sse-disabled ./blitters-test 9000000
+  fuzzer-find-diff.pl ./blitters-test \"ssh ppc64_host /path/to/blitters-test\"
+";
+
+$#ARGV >= 1 or die $usage;
+
+$batch_size = 10000;
+
+if ($#ARGV >= 2) {
+    $number_of_tests = int($ARGV[2]);
+} else {
+    $number_of_tests = -1
+}
+
+sub test_range {
+    my $min
+ = shift;
+    my $max = shift;
+
+    # check that [$min, $max] range is "bad", otherwise return
+    if (`$ARGV[0] $min $max 2>/dev/null` eq `$ARGV[1] $min $max 2>/dev/null`) {
+        return;
+    }
+
+    # check that $min itself is "good", otherwise return
+    if (`$ARGV[0] $min 2>/dev/null` ne `$ARGV[1] $min 2>/dev/null`) {
+        return $min;
+    }
+
+    # start bisecting
+    while ($max != $min + 1) {
+        my $avg = int(($min + $max) / 2);
+        my $res1 = `$ARGV[0] $min $avg 2>/dev/null`;
+        my $res2 = `$ARGV[1] $min $avg 2>/dev/null`;
```

```
+       if ($res1 ne $res2) {
+           $max = $avg;
+       } else {
+           $min = $avg;
+       }
+   }
+   return $max;
+}
+
+$base = 1;
+while ($number_of_tests <= 0 || $base <= $number_of_tests) {
+    printf("testing %-12d\r", $base + $batch_size - 1);
+    my $res = test_range($base, $base + $batch_size - 1);
+    if ($res) {
+        printf("Failure: results are different for test %d:\n", $res);
+
+
    printf("\n-- ref --\n");
+        print `$ARGV[0] $res`;
+        printf("-- new --\n");
+        print `$ARGV[1] $res`;
+
+        printf("The problematic conditions can be reproduced by running:\n");
+        printf("$ARGV[1] %d\n", $res);
+
+        exit(1);
+    }
+    $base += $batch_size;
+}
+printf("Success: %d tests finished\n", $base - 1);
```

Found in path(s):
* /pixman-0-40-0-1-1-deb11u1-diff-gz/pixman_0.40.0-1.1~deb11u1.diff

1.41 libfontconfig 2.13.1-4.2

1.41.1 Available under license :

This package was debianized by Colin Walters <walters@debian.org> on
Sun, 13 Oct 2002 15:01:50 -0400

It was downloaded from http://www.fontconfig.org/

Upstream Author: Keith Packard

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1.42 libisl23 0.23-1

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1.43 libpsl 0.21.0-1.2

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 psl-make-dafsa and lookup_string_in_fixed_set.c.

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```
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```

1.44 libjbig 2.1-3.1+b2

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1.45 tk-dev 8.6.11+1

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1.46 x11-common 7.7+22

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1.47 libcrypt-dev 4.4.18-4

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1.48 iconv 2.31

1.48.1 Available under license :

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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
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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
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Appendix: How to Apply These Terms to Your New Libraries

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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
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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.

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.
On Debian systems, the full text of the GNU General Public
License version 2 can be found in the file
`/usr/share/common-licenses/GPL-2'.

1.61 zlib1g-dev 1.2.11.dfsg-2+deb11u2

1.61.1 Available under license :

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

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications of Unzip for Zip64
      Copyright (C) 2007-2008 Even Rouault

      Modifications for Zip64 support on both zip and unzip
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
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/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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   misrepresented as being the original software.
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      Changes

      See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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 version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://zlib.net/ . Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
 -O, one libpng test fails. The test works in 32 bit mode (with the -n32
 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
 OSF/1 2.1 it works
 when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
 necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
 other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

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

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for

Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author

Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/*

Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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      Changes

      See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved
version 1.2, 11 Oct 2012

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3. This notice may not be
removed or altered from any source distribution.

Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

   Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

   The zlib sources can be compiled without change to produce a DLL. See the
   file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the
   precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
    * http://marknelson.us/1997/01/01/zlib-engine/
    * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

    example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see

http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines
that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how

zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value.

Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.62 libselinux1-dev 3.1-3

1.62.1 Available under license :

This library (libselinux) is public domain software, i.e. not copyrighted.

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risk.

1.63 media-types 4.0.0

1.63.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: https://salsa.debian.org/debian/media-types

Files: *
Copyright: public-domain
License: ad-hoc
This package contains public information compiled from around the 'net and
many people.

1.64 libassuan 2.5.3-7.1

1.64.1 Available under license :

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Version 2.1, February 1999

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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.

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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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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
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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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work with the complete corresponding
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1.67 glibc 2.31-13+deb11u11

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1.71 liblcms 2.12~rc1-2

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1.74 libtiff-dev 4.2.0-1+deb11u5

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1.77 libperl5.32 5.32.1-4+deb11u4

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

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Files-Excluded-regen-configure: bin/*
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was initially debianized by Brendan O'Dea <bod@debian.org>
on Thu, 17 Aug 2000 16:10:54 +1000. The packaging has since been modified
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Upstream Authors:
.
  Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).
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dist/base/*
dist/constant/*
dist/Devel-SelfStubber/*
dist/Dumpvalue/*
dist/Env/*
cpan/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
ext/POSIX/*
ext/re/*
cpan/Socket/*
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Comment:
----
cpan/Compress-Raw-Bzip2/bzip2-src/README states:
 Note that the files bzip2.c, bzip2recover.c, bzlib.c & decompress.c
 have been modified to allow them to build with a C++ compiler.
 The file bzip2-src/bzip2-cpp.patch contains the patch
 that was used to modify the original source.
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Files:
cpan/bignum/*
cpan/Tie-RefHash/*
cpan/Win32API-File/*
cpan/ExtUtils-Install/*
cpan/Math-BigInt/*
cpan/Math-BigInt-FastCalc/*
cpan/Math-BigRat/*
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#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;
```

```
 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.78 xorg 7.7+22

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```
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1.79 libpango 1.46.2-3

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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 works together with the library.

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized

party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.80 liblqr 0.4.2-2.1

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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

1. Source Code.

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

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

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

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

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

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same work.

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section 10
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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:

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

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

c) You must license the entire work, as a whole, under this
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additional terms, to the whole of the work, and all its parts,
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d) If the work has interactive user interfaces, each must display
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A compilation of a covered work with other separate and independent
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and which are not combined with it such as to form a larger program,
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You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

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

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user

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1.81 libevent-core-2.1-7 2.1.12-stable-1

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1.82 aom 1.0.0.errata1-3+deb11u2

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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:

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<signature of Ty Coon>, 1 April 1989
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Public License instead of this License.

1.84 perl-base 5.32.1-4+deb11u4

1.84.1 Available under license :

[name]
Uppercase license text

[input]
=head1 Uppercase License

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[output]
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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Files-Excluded-regen-configure: bin/*
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was initially debianized by Brendan O'Dea <bod@debian.org>
on Thu, 17 Aug 2000 16:10:54 +1000. The packaging has since been modified
by various others, including Dominic Hargreaves <dom@earth.li> and Niko
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.
Upstream Authors:
.
  Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).
.
Last checked against: Perl 5.32.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
```

```
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.85 default-libmysqlclient-dev 1.0.7

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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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
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lib/gssapi/mechglue/g_dsp_status.c
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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
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lib/gssapi/mechglue/g_inquire_context.c
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lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c

lib/kdb/kdb_log.h
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes

2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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the Library is deemed a mode
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1.90 libxss-dev 1.2.3-1

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1.91 x11proto-scrnsaver-dev 2020.1-1

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1.95 libicu-dev 67.1-7

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

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

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

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

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

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

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

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

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1.99 e2fsprogs 2.1-1.46.2-2+deb11u1

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
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
-

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comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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```

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

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

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(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.

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If such an object file uses only numerical parameters, data
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That's all there is to it!
```
#
# 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): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(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-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)
```

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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==========

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1.108 libdb-dev 5.3.1+nmu1

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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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another language. (Hereinafter, translation is
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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.

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
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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
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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
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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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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any
other library
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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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.

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

TERMS AND CONDITIONS

0. Definitions.

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"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,
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1. Source Code.

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

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

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

(if any) on which the executable work runs, or a compiler used to 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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section 10
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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

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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:

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

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

c) You must license the entire work, as a whole, under this
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License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
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invalidate such permission if you have separately received it.

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

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

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
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in one of these ways:

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

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"Installation Information" for a User Product means any methods, procedures, authorization
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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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1.114 sysvinit-utils 2.96-7+deb11u1

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1.115 zlib1g 1.2.11.dfsg-2+deb11u2

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/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
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/* gzwrite.c -- zlib functions for writing gzip files
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*/

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/* inffast.h -- header to use inffast.c
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*/

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/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications of Unzip for Zip64
      Copyright (C) 2007-2008 Even Rouault

      Modifications for Zip64 support on both zip and unzip
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
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also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
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/* inflate.c -- zlib decompression
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
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/* infback.c -- inflate using a call-back interface
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
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/* gzlog.h
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 version 2.2, 14 Aug 2012

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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
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/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
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*/

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/* inflate.h -- internal inflate state definition
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
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/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications for Zip64 support
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
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/*
* gzlog.c
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* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
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/* gzjoin -- command to join gzip files into one gzip file

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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://zlib.net/ . Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
-O, one libpng test fails. The test works in 32 bit mode (with the -n32
compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
OSF/1 2.1 it works
when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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third-party code.

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the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

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

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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://tools.ietf.org/html/rfc1950
 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

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

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

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

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip

Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

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Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

        For more info read MiniZip_info.txt

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      Changes

      See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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 version 1.2, 11 Oct 2012

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removed or altered from any source distribution.

Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

   Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

   The zlib sources can be compiled without change to produce a DLL. See the
   file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the
   precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

   See
      * http://marknelson.us/1997/01/01/zlib-engine/
      * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so: symbol __register_frame_info: referenced symbol not found

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The gz* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only

if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate

is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by

Giles Vollant, which is found in the contrib directory of zlib. It is not
part of zlib. In fact none of the stuff in contrib is part of zlib. The
files in there are not supported by the zlib authors. You need to contact
the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General
Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the
GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by
other authors and are provided as a convenience to the user within the zlib
distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us
so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.116 libgdbm-dev 1.19-2

1.116.1 Available under license :

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands

as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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(1) GPL-compatible doesn't mean that we're distributing Python under
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,

because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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The code contained in this directory was automatically generated using the
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  python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose

Please avoid changing it manually.

You can report issues or suggest changes directly to `validate-pyproject`
(or to the relevant plugin repository)

- https://github.com/abravalheri/validate-pyproject/issues

***

The following files include code from opensource projects
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- `fastjsonschema_exceptions.py`:
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- `extra_validations.py` and `format.py`, `error_reporting.py`:
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Additionally the following files are automatically generated by tools provided
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-
`__init__.py`
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```
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.122 libgcc-s1 10.2.1-6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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[This is the first released version of the library GPL. It is
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Preamble
========

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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.

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Some devices are designed to deny users access to install or run
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Therefore, we have designed this version of the GPL to prohibit the practice
for those products. If such problems arise substantially in
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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
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@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

@item Source Code.

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

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

The ``System Libraries'' of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of

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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
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1.123 libprocps 3.3.17-5

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1.126 mercurial-common 5.6.1-4

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$ hg init a
$ cd a
$ echo foo > b
$ hg add b
$ hg ci -m "b"

$ chmod -w .hg/store

$ cd ..

$ hg clone a b
requesting all changes
adding changesets
adding manifests
adding file changes
added 1 changesets with 1 changes to 1 files
new changesets 97310831fa1a
updating to branch default
1 files updated, 0 files merged, 0 files removed, 0 files unresolved

$ chmod +w a/.hg/store # let test clean up

$ cd b
$ hg verify
checking changesets
checking manifests
crosschecking files in changesets and manifests
checking files
checked 1 changesets with 1 changes to 1 files

$ cd ..
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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
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* To: Stephen Frost <sfrost@snowman.net>

* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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1.130 elfutils 0.183-1

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1.133 jaraco.text 3.12.1

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1.137 libx265-192 3.4-2

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when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

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<signature of Ty Coon>, 1 April 1989
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Version 2.1, February 1999

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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
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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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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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5. A program that contains no derivative of any portion of the

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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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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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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

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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.

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

TERMS AND CONDITIONS

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1. Source Code.

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

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

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

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1.143 zipp 3.19.2

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1.145 backports.tarfile 1.2.0

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1.148 chardet 5.1.0

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1.149 python-pip 24.3.1

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes

2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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2.0	1.6	2000	BeOpen.com	no
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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regexp/utf8.[ch] (see regexp/LICENSE):

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1.157 mercurial 5.6.1-4

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```
#require unix-permissions no-root

 $ hg init a
 $ cd a
 $ echo foo > b
 $ hg add b
 $ hg ci -m "b"

 $ chmod -w .hg/store

 $ cd ..

 $ hg clone a b
 requesting all changes
 adding changesets
 adding manifests
 adding file changes
 added 1 changesets with 1 changes to 1 files
 new changesets 97310831fa1a
 updating to branch default
 1 files updated, 0 files merged, 0 files removed, 0 files unresolved
```

$ chmod +w a/.hg/store # let test clean up

$ cd b
$ hg verify
checking changesets
checking manifests
crosschecking files in changesets and manifests
checking files
checked 1 changesets with 1 changes to 1 files

$ cd ..
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1.158 file 5.39-3+deb11u1

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1.159 logsave 1.46.2-2+deb11u1

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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
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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
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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
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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
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modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

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a) Accompany
the work with the complete corresponding
machine-readable 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.

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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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other library
facilities. This must be distributed under the terms of the Sections above.

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

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1.167 libxext 1.3.3-1.1

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Version 3, 29 June 2007

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1.173 jbig-kit 2.1-3.1+b2

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1.177 pq 13.18-0+deb11u1

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
```

```
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
```

```
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.178 my-test-package 1.0

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1.179 librsvg 2.50.3+dfsg-1+deb11u1

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// This file was generated by gir (https://github.com/gtk-rs/gir)
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use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
  pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

  match fn {
      get_type => || gio_sys::g_permission_get_type(),
  }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
  fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

  fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
      &self,
      cancellable: Option<&P>,
      callback: Q,
   );

  fn acquire_async_future(
      &self,
  ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;
```

```
    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );

    fn release_async_future(
        &self,
    ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

    fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

    fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self,
   f: F) -> SignalHandlerId;
}

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
```

```
        callback: Q,
    ) {
        let user_data: Box_<Q> = Box_::new(callback);
        unsafe extern "C" fn acquire_async_trampoline<
            Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
        >(
            _source_object: *mut gobject_sys::GObject,
             res: *mut gio_sys::GAsyncResult,
            user_data: glib_sys::gpointer,
        ) {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
            let result = if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            };
            let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
            callback(result);
        }
        let callback = acquire_async_trampoline::<Q>;
        unsafe {
            gio_sys::g_permission_acquire_async(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                Some(callback),
                Box_::into_raw(user_data) as *mut _,
            );
        }
    }

    fn acquire_async_future(
        &self,
    ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> +
'static>> {
        Box_::pin(crate::GioFuture::new(self, move |obj, send| {
            let cancellable = Cancellable::new();
            obj.acquire_async(Some(&cancellable), move |res| {
                send.resolve(res);
            });

            cancellable
        }))
    }

    fn get_allowed(&self) -> bool {
        unsafe {
            from_glib(gio_sys::g_permission_get_allowed(
```

```
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
             self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}
```

```
fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(
        _source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = release_async_trampoline::<Q>;
    unsafe {
        gio_sys::g_permission_release_async(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box_::into_raw(user_data) as *mut _,
        );
    }
}

 fn release_async_future(
    &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });

        cancellable
    }))
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
```

```
    unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as
*mut _,
            b"notify::allowed\0".as_ptr() as *const _,
            Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
            Box_::into_raw(f),
        )
    }
  }

  fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-acquire\0".as_ptr() as *const _,
            Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
            Box_::into_raw(f),
         )
    }
  }

  fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
```

```
        f: glib_sys::gpointer,
    ) where
        P: IsA<Permission>,
    {
        let f: &F = &*(f as *const F);
        f(&Permission::from_glib_borrow(this).unsafe_cast())
    }
    unsafe {
        let f: Box_<F> = Box_::new(f);
        connect_raw(
            self.as_ptr() as *mut _,
            b"notify::can-release\0".as_ptr() as *const _,
            Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
            Box_::into_raw(f),
        )
    }
  }
}

impl fmt::Display for Permission {
  fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
    write!(f, "Permission")
  }
}
```

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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
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object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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1.182 jaraco.collections 5.1.0

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1.183 libcbor 0.5.0+dfsg-2

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1.184 freedesktop 1.66.1-1+b1

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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 the Library into a program that is not a library.

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

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1.186 libfido2-1 1.6.0-2

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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
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.189 zstd 1.4.4

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Files: *
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2008-2015 Jan Dittberner <jan@dittberner.info>
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Comment:
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1.193 lzo 2.10-2

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1.195 libpcre2-32-0 10.36-2+deb11u1

1.195.1 Available under license :

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End
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The basic library functions are written in C and are freestanding. Also

included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

University of Cambridge Computing Service,
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==========

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1.198 pkg-config 0.29.2-1

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

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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.

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

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

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if necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.204 libpthread-stubs 0.4-1

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1.205 autocommand 2.2.2

1.205.1 Available under license :

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Version 3, 29 June 2007

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of using an interface provided by the Library.

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Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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1.206 python-stdlib-extensions 3.9.2-1

1.206.1 Available under license :

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

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Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/__init__.py

* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/parse.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/pgen.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/literals.py
No license file was found, but licenses were detected in source scan.

file.write('License: %s\n' % self.get_license())

Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/distutils/dist.py
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('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.8/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.9/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.10/Lib/distutils/command/bdist_rpm.py
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***/

Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Modules/_tkinter.c
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Modules/_tkinter.c
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Modules/_tkinter.c
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Modules/_tkinter.c
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Modules/_tkinter.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/tests/test_pytree.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pygram.py
*

/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.10/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.9/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_exec.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_apply.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.10/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pygram.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.10/Lib/lib2to3/tests/pytree_idempotency.py

* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_long.py
No license file was found, but licenses were detected in source scan.

executable.

Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/distutils/spawn.py
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```
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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
                 | NAME [Details] [Repeater]
                 | '(' Alternatives ')' [Repeater]
                 | '[' Alternatives ']'
  )
```

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'

Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/PatternGrammar.txt
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/PatternGrammar.txt
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version.

Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.10/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.10/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.6/Lib/distutils/command/bdist_wininst.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.9/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.10/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.9/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.8/Lib/distutils/command/bdist_wininst.py
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Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/driver.py
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Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.9/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_types.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_types.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-
3.9.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_types.py
*
/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_filter.py

* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_buffer.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/tokenize.py

1.207 brotli 1.0.9-2+b2

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1.208 libpcre2-posix2 10.36-2+deb11u1

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Written by: Philip Hazel
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Email domain: gmail.com

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1.209 libgcc-10-dev 10.2.1-6

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1.222 libstd-c 10.2.1-6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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iconv (Charset Conversion Library) v2.0

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Version 3, 29 June 2007

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

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

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

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we

want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only
works together with the library.

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

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this Library General Public License (also called "this License").
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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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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
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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
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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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a. Accompany the combined library with a copy of the same work

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b. Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know
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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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

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

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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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.

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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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and giving a relevant date.

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The work must carry prominent notices stating that it is released
under this License and any conditions added
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You must license the entire work, as a whole, under this License to
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Convey the object code in, or embodied in, a physical product
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1.223 bluez 5.55-3.1+deb11u2

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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.

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

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.)

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obtained from http://userspace.selinuxproject.org/releases/current/devel/

This package was debianized by Russell Coker <russell@coker.com.au> on
Fri, 20 Aug 2004 17:26:18 +1000.

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Manoj Srivastava
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1. Source Code.

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a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order
to run.

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

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

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

Activities other than copying, distribution and modification are not

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

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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
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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
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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 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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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.

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

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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.

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1. Source Code.

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

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

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

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released under this License and any conditions added under section
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4 to
"keep intact all notices".

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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:

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to

copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
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code is in no case prevented or interfered with solely because
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1.229 diffutils 3.7-5

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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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1.231 utf8proc 2.5.0-1

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

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strings/apr_snprintf.c:

*
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1.237 login 4.8.1-1

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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.)

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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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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
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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 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
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That's all there is to it!

1.240 libcbin 2.31-13+deb11u11

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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.)

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
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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.

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1.250 npth 1.6-3

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1.251 libxss 1.2.3-1

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1.252 libpkit 0.23.22-1

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1.253 e2fsprogs 1.46.2-2+deb11u1

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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1.254 libcrypt 4.4.18-4

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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========

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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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
kprop/kpropd_rpc.c
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1.262 libevent-extra-2.1-7 2.1.12-stable-1

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1.263 wheel 0.43.0

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1.265 nghttp2 1.43.0-1+deb11u2

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1.266 libbacktrace 10.2.1-6

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
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libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

 ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
 svn://gcc.gnu.org/svn/gcc/   (for prereleases)
 ftp://sourceware.org/pub/newlib/   (for newlib)
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The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language   Compiler package Library package   Documentation

Ada
           gnat-10   libgnat-10   gnat-10-doc
BRIG   gccbrig-10   libhsail-rt0
C   gcc-10   gcc-10-doc
C++   g++-10   libstdc++6   libstdc++6-10-doc
D   gdc-10
Fortran 95   gfortran-10   libgfortran5   gfortran-10-doc
Go   gccgo-10   libgo0
Objective C   gobjc-10   libobjc4
Objective C++ gobjc++-10
Modula-2   gm2-10   libgm2

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

Language Sources   Development   Debugging   Position-Independent
----
C++   libstdc++6-10-dbg libstdc++6-10-pic

D libphobos-10-dev

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-10-base Base files common to all compilers
gcc-10-soft-float Software floating point (ARM only)
gcc-10-source The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10 GNAT version library

C:
cpp-10, cpp-10-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,
  gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-10 Ada support library and libgnat-util10
 library.
- Various config files in gcc/config/ used in runtime libraries.
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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1.267 libsigsegv 2.13-1

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1.268 simple launcher 1.1.0.14

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
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2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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==========

Distutils2 Contributors

==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

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- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby
Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ==============================
    Installing and Using Setuptools
    ==============================

.. contents:: **Table of Contents**

Installation Instructions

Windows

=======

Install setuptools using the provided ``.exe`` installer. If you've previously installed older versions of setuptools, please delete all ``setuptools*.egg`` and ``setuptools.pth`` files from your system's ``site-packages`` directory (and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using an ``.exe`` installer,
please be sure to also *uninstall that older version*
via your system's "Add/Remove Programs" feature, BEFORE installing the newer version.

Once installation is complete, you will find an ``easy_install.exe`` program in your Python ``Scripts`` subdirectory. Be sure to add this directory to your ``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems

==========

Install setuptools using the provided source RPM. The included ``.spec`` file assumes you are installing using the default ``python`` executable, and is not specific to a particular Python version. The ``easy_install`` executable will be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python installation's default ``site-packages`` directory (and ``$prefix/bin`` for scripts), please use the ``.egg``-based
installation approach described in the
following section.

Cygwin, Mac OS X, Linux, Other

==========

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``.
Setuptools will install itself using the matching version of Python (e.g.
``python2.4``), and will place the ``easy_install`` executable in the
default location for installing Python scripts (as determined by the
standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or
your default distutils installation locations for libraries and scripts, you
may include EasyInstall command-line options such as ``--prefix``,
``--install-dir``, and so on, following the ``.egg`` filename
on the same
command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting
the `EasyInstall manual`_ for detailed instructions, especially `the section
on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python
(as opposed to the Cygwin version that lives in ``/usr/bin``), you must make
sure that an appropriate executable (``python2.3``, ``python2.4``, or
``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For
example, doing the following at a Cygwin bash prompt will install setuptools
for the **Windows** Python found at ``C:\\Python24``::

ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python
Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``

is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

---
Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `Package Compatibility Notes`_ (user-maintained)
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features, you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: http://bugs.python.org/setuptools/
.. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
.. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
.. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
.. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
.. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
---

* The original design for the ``.egg`` format and the ``pkg_resources`` API was
co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first
version of ``pkg_resources``, and supplied the OS X operating system version
compatibility algorithm.

* Ian Bicking implemented many early "creature

comfort" features of
easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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

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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
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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
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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
kprop/kpropd_rpc.c
kprop/kproplog.c

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Version 3, 29 June 2007

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1.274 libbrotli-dev 1.0.9-2+b2

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1.275 libgssrpc 1.18.3-6+deb11u5

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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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"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
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lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.279 libx11-dev 1.7.2-1+deb11u2

1.279.1 Available under license :

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

```
--- libx11-1.7.2.orig/.gitlab-ci.yml
+++ libx11-1.7.2/.gitlab-ci.yml
@@ -0,0 +1,102 @@
+# vim: set expandtab shiftwidth=2 tabstop=8 textwidth=0 filetype=yaml:
+#
+# This CI uses the freedesktop.org ci-templates.
+# Please see the ci-templates documentation for details:
+# https://freedesktop.pages.freedesktop.org/ci-templates/
+
+.templates_sha: &template_sha c7702b1ae8507c5d5f34edcbf280f287ab541e8e # see
https://docs.gitlab.com/ee/ci/yaml/#includefile
+
+
+include:
+  # Arch container builder template
+  - project: 'freedesktop/ci-templates'
+    ref: *template_sha
+    file: '/templates/arch.yml'
+
+
+stages:
+  - prep          # prep work like rebuilding the container images if there is a change
+  - build         # for actually building and testing things in a container
+  - deploy
```

```
+
+
+variables:
+  FDO_UPSTREAM_REPO: 'xorg/lib/libX11'
+  # The tag should be updated each time the list of packages is updated.
+
  # Changing a tag forces the associated image to be rebuilt.
+  # Note: the tag has no meaning, we use a date format purely for readability
+  FDO_DISTRIBUTION_TAG:  '2020-11-16.0'
+  FDO_DISTRIBUTION_PACKAGES:  'git gcc pkgconf autoconf automake make xorg-util-macros xtrans
xorgproto libxcb'
+
+
+#
+# Template for an image with ci-fairy installed
+#
+.ci_fairy_image:
+  image: python:alpine
+  before_script:
+    - apk add git
+    - pip install git+http://gitlab.freedesktop.org/freedesktop/ci-templates
+
+#
+# Verify that commit messages are as expected, signed-off, etc.
+#
+check-commits:
+  extends:
+    - .ci_fairy_image
+  stage: prep
+  script:
+    - ci-fairy check-commits --signed-off-by --junit-xml=results.xml
+  except:
+    - master@xorg/lib/libX11
+  variables:
+    GIT_DEPTH: 100
+  artifacts:
+    reports:
+      junit: results.xml
+
+#
+# Verify that the merge request has the allow-collaboration checkbox ticked
+#
+check-merge-request:
+  extends:
+    - .ci_fairy_image
+
  stage: deploy
+  script:
```

```
+    - ci-fairy check-merge-request --require-allow-collaboration --junit-xml=results.xml
+  artifacts:
+    when: on_failure
+    reports:
+      junit: results.xml
+  allow_failure: true
+
+
+#
+# Build a container with the given tag and the packages pre-installed.
+# This only happens if when the tag changes, otherwise the existing image is
+# re-used.
+#
+container-prep:
+  extends:
+    - .fdo.container-build@arch
+  stage: prep
+  variables:
+    GIT_STRATEGY: none
+
+
+#
+# The default build, runs on the image built above.
+#
+build:
+  stage: build
+  extends:
+    - .fdo.distribution-image@arch
+  script:
+    - autoreconf -ivf
+    - mkdir _builddir
+    - pushd _builddir > /dev/null
+    - ../configure --disable-silent-rules
+    - make
+    - make check
+    - make distcheck
+    - popd > /dev/null
--- libx11-1.7.2.orig/.pc/.quilt_patches
+++ libx11-1.7.2/.pc/.quilt_patches
@@ -0,0 +1 @@
+debian/patches
--- libx11-1.7.2.orig/.pc/.quilt_series
+++
 libx11-1.7.2/.pc/.quilt_series
@@ -0,0 +1 @@
+series
--- libx11-1.7.2.orig/.pc/.version
+++ libx11-1.7.2/.pc/.version
```

```
@@ -0,0 +1 @@
+2
--- libx11-1.7.2.orig/ChangeLog
+++ libx11-1.7.2/ChangeLog
@@ -1,866 +1,3 @@
-commit f906fe8e9769e4313294b68e61c402610ade69da
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date:   Sat Jun 5 09:12:13 2021 -0700
-
-    libX11 1.7.2
-
-    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit 51b73ac0acda65005c8a9f17ca4ea7281b00ca84
-Author: Tobias Stoeckmann <tobias@stoeckmann.org>
-Date:   Sun May 23 15:05:17 2021 +0200
-
-    Protect against overly long strings
-
-    Checking against upper limit of USHRT_MAX must happen before truncating
-    size_t to int. On 64 bit systems with strings larger than 2 GB this
-    could otherwise lead to negative ints or ints smaller than USHRT_MAX.
-
-    In XParseColor this could lead to out of boundary access with strings
-    starting with a # (color sequence). A modulo
 12 operation is performed
-    to validate the string length, but with an overflown length, the for
-    loop would eventually read behind terminating '\0' character.
-
-    Signed-off-by: Tobias Stoeckmann <tobias@stoeckmann.org>
-
-commit ab2f59530b16bdfbf023b8e025c7c8aba3b6fd0c
-Author: Matthieu Herrb <matthieu@herrb.eu>
-Date:   Sun May 30 16:33:48 2021 +0200
-
-    Check for NULL strings before getting their lengths
-
-    Problem reported by Karsten Trulsen
-
-    Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
-
-commit a8216e8653a246db664e1443ecf707b27de65067
-Author: Matthieu Herrb <matthieu@herrb.eu>
-Date:   Sat May 22 17:35:47 2021 +0200
-
-    include <limits.h> always, not if HAVE_CONFIG_H is set.
-
-    via Matthew Green from the NetBSD project
```

-
- Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
-
-commit 6953a586df4819143c4d55e011b3a5e5377981b8
-Author: Matthieu Herrb <matthieu.herrb@laas.fr>
-Date: Tue May 18 15:27:58 2021 +0200
-
- Version
1.7.1
-
- Release notes in README.md, version bump in configure.ac
-
-commit 8d2e02ae650f00c4a53deb625211a0527126c605
-Author: Matthieu Herrb <matthieu@herrb.eu>
-Date: Fri Feb 19 15:30:39 2021 +0100
-
- Reject string longer than USHRT_MAX before sending them on the wire
-
- The X protocol uses CARD16 values to represent the length so
- this would overflow.
-
- CVE-2021-31535
-
- Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
-
-commit 838ea5a5a0267c25b20c095c9a70684edeeefba4
-Author: Gaurav Ujjwal <gujjwal00@gmail.com>
-Date: Sun May 9 05:04:36 2021 +0000
-
- Fix out-of-bound access in KeySymToUcs4()
-
- Array `keysym_to_unicode_590_5fe` is only valid for range [0x590, 0x5fe] but current lower-bound is checked against 0x589.
-
- So invalid values from 0x58a to 0x58f are being allowed by current check.
-
- If any of these invalid value is passed as `keysym`, `keysym - 0x590` would underflow.
-
- Signed-off-by:
Gaurav Ujjwal <gujjwal00@gmail.com>
-
-commit 32491b02c76ac22f99dc433a32466e22bdc181a7
-Author: Christopher Chavez <chrischavez@gmx.us>
-Date: Mon May 3 15:46:44 2021 +0000
-
- Xlib.h: spelling fix in comment
-
-commit 5faa8dc0b364f55f19034c370436074646d9ad54

-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Tue Nov 24 18:54:24 2020 +0100
-
-    nls: adjust three comments about the APL compose sequences
-
-    Commit 0bbc0d5e605e (from eight years ago) removed the lines that two
-    of these comments referred to. Without those lines, the comments don't
-    make sense any more. Reword and shorten them.
-
-    Also reword a comment about two sequences that don't work.
-
-    Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit b126bfd7fe990b8c1df088f55c31d9b3fd440cde
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Tue Nov 24 12:23:32 2020 +0100
-
-    nls: allow composing all breved letters also with a lowercase "u"
-
-    The
 letters and can already be composed with "u a" and "u u", but
-    , , , and can be composed only with an uppercase U. Emancipate
-    the latter four and understand also a lowercase "u" to mean 'breve'.
-
-    (Yesterday I needed and was annoyed that "u g" did not work.)
-
-    Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit 78027fdb7aa07621a3b7cdf37050bae39012f2fb
-Author: Walter Harms <wharms@bfs.de>
-Date: Sat Nov 28 21:05:33 2020 +0100
-
-    fix same roff code
-
-    Signed-off-by: Walter Harms <wharms@bfs.de>
-
-commit 4f15cfc64548098fef3ddd24f7359b76cf1bbda7
-Author: Walter Harms <wharms@bfs.de>
-Date: Sat Nov 28 20:56:35 2020 +0100
-
-    Fix some roff code add see also
-
-    Signed-off-by: Walter Harms <wharms@bfs.de>
-
-commit daa106927f78e6c5c9c36558a4b951d7cb58a8d1
-Author: Walter Harms <wharms@bfs.de>
-Date: Sat Nov 28 17:49:25 2020 +0100
-

-    fix broken nroff coding for code comments
-
-    the comments /* */ are
 code as /\(** */ that does not work.
-    the coding in other X11 man pages is /\&* */ so we do the same here.
-
-commit 7bdeae239b17db002964ac73d06f43f216d1cf86
-Author: Walter Harms <wharms@bfs.de>
-Date: Fri Nov 27 22:43:21 2020 +0100
-
-    FIX: warning: macro `hN' not defined
-
-    Signed-off-by: Walter Harms <wharms@bfs.de>
-
-commit b7ec67d3ea78ab68857328d8f72d923324e68cc2
-Author: Walter Harms <wharms@bfs.de>
-Date: Fri Nov 27 22:26:15 2020 +0100
-
-    FIX: warning: macro `IN' not defined
-
-    just remove an other dead macro use.
-
-commit 7ca3ceb9175a829a40c347cb3b2e98341ec5a2df
-Author: Walter Harms <wharms@bfs.de>
-Date: Fri Nov 27 21:58:04 2020 +0100
-
-    fix warning: macro `s' not defined
-
-    this is caused by bad nroff coding, fix some more issues on the fly
-
-commit 14fb4e535626ba934cad5bc4308f511524cd1103
-Author: Walter Harms <wharms@bfs.de>
-Date: Fri Nov 27 20:04:22 2020 +0100
-
-    FIX: warning: macro `hN' not defined
-
-    this
 was found by checking man pages with
-     groff -t -mandoc -Z -wmac -Tutf8 $FILE >/dev/null
-
-    In most cases .hN could be replaced with .BR
-
-    Signed-off-by: Walter Harms <wharms@bfs.de>
-
-commit cb03da4447aa53e8e5382f124917d89b50148036
-Author: Walter Harms <wharms@bfs.de>
-Date: Fri Nov 27 19:00:00 2020 +0100
-

-    FIX: warning: macro `Pn' not defined
-
-    The missing macro is found via:
-    roff -t -mandoc -Z -wmac -Tutf8 XAnyEvent.man >/dev/null
-
-    To fix the problem the macro is replaced with .RB.
-
-    Signed-off-by: Walter Harms <wharms@bfs.de>
-
-commit cc9f8878f2cbe17c7b4035b4ff4352b52ece38e0
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Wed Nov 25 16:58:27 2020 +0100
-
-    nls: add 'C.utf8' as an alias for 'en_US.UTF-8'
-
-    The normal form is 'C.UTF-8', but 'C.utf8' has been seen in the wild.
-
-    Fixes #102.
-
-    Reported-by: Tomas Korbar
-
-    Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit
 ca8115186f810eccb7d86b0979980eff3ba95f0b
-Author: Keith Packard <keithp@keithp.com>
-Date: Thu Nov 19 11:30:41 2020 -0800
-
-    Version 1.7.0
-
-    Release notes in README.md, version bump in configure.ac
-
-    Signed-off-by: Keith Packard <keithp@keithp.com>
-
-commit 325ac177fb6d38f4c7689d9ce059792eaef388ef
-Author: Keith Packard <keithp@keithp.com>
-Date: Mon Nov 16 15:48:40 2020 -0800
-
-    Update libX11 .so version to 6.4.0
-
-    There have been API additions since the previous release, so the
-    .so version needs to change.
-
-    Signed-off-by: Keith Packard <keithp@keithp.com>
-
-commit 103e2e11519984aa5746c06e7d90d1f5bc8174a3
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Sat Oct 31 09:24:01 2020 -0700

-
- Don't leave dangling pointers in Free functions
-
- While these are mostly called during teardown of larger structures
- that are about to themselves be freed, there's no guarantee that
- will always
 be the case, so try to be safer here.
-
- [This bug was found by the Parfait 4.0 bug checking tool.
- http://labs.oracle.com/pls/apex/f?p=labs:49:::::P49_PROJECT_ID:13]
-
- v2: Deduplicate & simplify pointer clearing in _XFreeEventCookies
- as suggested by @keithp
-
- Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit 7d70e302218e2ec8518548ddcdc02d828e7889af
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Sat Oct 31 08:56:34 2020 -0700
-
- XimProto.h: wrap XIM_HEADER_SIZE definition in parens
-
- Resolves parfait warning of potential macro misinterpretation if
- expanded in the midst of other arithmetic operations with higher
- precedence.
-
- Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit a3c0b5dbd6b12ae64bc78b11795647a7f6df0c7a
-Author: Keith Packard <keithp@keithp.com>
-Date: Tue Nov 17 13:15:18 2020 -0800
-
- Copy locale modifiers when creating XimInstCallback
 [v2]
-
- Locale modifiers may be freed whenever XSetLocaleModifiers gets
- called, even if the locale hasn't changed. This means that we cannot
- save a pointer to those modifiers in the XimInstCallback record and
- must, instead, make a copy of them instead.
-
- This fixes a problem uncovered when running wish under libasan as
- follows (on current Debian unstable):
-
- $ LD_PRELOAD=/usr/lib/x86_64-linux-gnu/libasan.so.6 wish
-
- Reported-by: Vittorio Zecca <zeccav@gmail.com>
- Signed-off-by: Keith Packard <keithp@keithp.com>
-

- v2:
- Remove incorrect 'else' token found by @alanc
-
-commit 960e2e0cfac12c3477c672d0d40818a0dc74aca5
-Author: Peter Hutterer <peter.hutterer@who-t.net>
-Date: Mon Nov 16 09:34:57 2020 +1000
-
- gitlab CI: add a basic build test
-
- Using Arch as base distribution here because we can expect our dependencies to
- be up-to-date. We rely on the Arch for our dependencies rather
than building
- those from git (notably: xorg-macros, xtrans and libxcb).
-
- Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
-
-commit dbb55e1a5e82870466b095097d9e46046680ec25
-Author: Frediano Ziglio <fziglio@redhat.com>
-Date: Wed Jan 29 09:06:54 2020 +0000
-
- Fix poll_for_response race condition
-
- In poll_for_response is it possible that event replies are skipped
- and a more up to date message reply is returned.
- This will cause next poll_for_event call to fail aborting the program.
-
- This was proved using some slow ssh tunnel or using some program
- to slow down server replies (I used a combination of xtrace and strace).
-
- How the race happens:
- - program enters into poll_for_response;
- - poll_for_event is called but the server didn't still send the reply;
- - pending_requests is not NULL because we send a request (see call
- to append_pending_request in _XSend);
- - xcb_poll_for_reply64 is called
from poll_for_response;
- - xcb_poll_for_reply64 will read from server, at this point
- server reply with an event (say sequence N) and the reply to our
- last request (say sequence N+1);
- - xcb_poll_for_reply64 returns the reply for the request we asked;
- - last_request_read is set to N+1 sequence in poll_for_response;
- - poll_for_response returns the response to the request;
- - poll_for_event is called (for instance from another poll_for_response);
- - event with sequence N is retrieved;
- - the N sequence is widen, however, as the "new" number computed from
- last_request_read is less than N the number is widened to N + 2^32
- (assuming last_request_read is still contained in 32 bit);
- - poll_for_event enters the nested if statement as req is NULL;

- - we compare the widen N (which now does not fit into 32 bit) with
-   request (which fits into 32 bit) hitting the throw_thread_fail_assert.
-
- To avoid the race condition
 and to avoid the sequence to go back
- I check again for new events after getting the response and
- return this last event if present saving the reply to return it
- later.
-
- To test the race and the fix it's helpful to add a delay (I used a
- "usleep(5000)") before calling xcb_poll_for_reply64.
-
- Original patch written by Frediano Ziglio, see
- https://gitlab.freedesktop.org/xorg/lib/libx11/-/merge_requests/34
-
- Reworked primarily for readability by Peter Hutterer, see
- https://gitlab.freedesktop.org/xorg/lib/libx11/-/merge_requests/53
-
- Signed-off-by: Peter Hutterer <peter.hutterer@who-t.net>
-
-commit 30ccef3a48029bf4fc31d4abda2d2778d0ad6277
-Author: Keith Packard <keithp@keithp.com>
-Date: Sat Nov 7 22:22:47 2020 -0800
-
- Avoid recursing through _XError due to sequence adjustment
-
- This patch is based on research done by Dmitry Osipenko to uncover the
- cause of a large class of Xlib lockups.
-
- _XError
 must unlock and re-lock the display around the call to the
- user error handler function. When re-locking the display, two
- functions are called to ensure that the display is ready to generate a request:
-
-     _XIDHandler(dpy);
-     _XSeqSyncFunction(dpy);
-
- The first ensures that there is at least one XID available to use
- (possibly calling _xcb_generate_id to do so). The second makes sure a
- reply is received at least every 65535 requests to keep sequence
- numbers in sync (possibly generating a GetInputFocus request and
- synchronously awaiting the reply).
-
- If the second of these does generate a GetInputFocus request and wait
- for the reply, then a pending error will cause recursion into _XError,
- which deadlocks the display.
-
- One seemingly easy fix is to have _XError avoid those calls by

- invoking InternalLockDisplay instead of LockDisplay. That function
- does everything that LockDisplay does *except*
 call those final two
- functions which may end up receiving an error.
-
- However, that doesn't protect the system from applications which call
- some legal Xlib function from within their error handler. Any Xlib
- function which cannot generate protocol or wait for events is valid,
- including many which invoke LockDisplay.
-
- What we need to do is make LockDisplay skip these two function calls
- precisely when it is called from within the _XError context for the
- same display.
-
- This patch accomplishes this by creating a list of threads in the
- display which are in _XError, and then having LockDisplay check the
- current thread against those list elements.
-
- Inspired-by: Dmitry Osipenko <digetx@gmail.com>
- Signed-off-by: Keith Packard <keithp@keithp.com>
- Tested-by: Dmitry Osipenko <digetx@gmail.com>
- Reviewed-by: Dmitry Osipenko <digetx@gmail.com>
-
-commit c9c4d6efbf92ab51695e2e740319503221d68eed
-Author: Benno
 Schulenberg <bensberg@telfort.nl>
-Date: Fri Nov 13 11:34:04 2020 +0100
-
- nls: improve the comments for the Serbian compose sequences
-
- Also put an extra space before the lone combining characters
- so they have some room to breathe.
-
- Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit 3497dae3d9c52a252110b2a0983b82000be0fe8e
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Fri Nov 13 11:23:09 2020 +0100
-
- nls: remove mistaken Serbian compose sequences with combining diacritics
-
- Combining characters are not dead keys -- they have an immediate effect
- and combine with the preceding character. So they cannot be used in
- compose sequences.
-
- Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit 5cd60398b7787297008b13a848ed3cfbd7ef178d

-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Mon Nov 2 16:34:39 2020 +0100
-
-    nls: rename the obsolete sr_CS locale to sr_RS
-
-    Fixes #107,
 for the most part.
-
-    Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit 7cf1729590534e257b851899cf03421b65c538e3
-Author: Keith Packard <keithp@keithp.com>
-Date: Sat Nov 7 17:02:56 2020 -0800
-
-    Don't attempt to unload locale context data
-
-    Most locale context users call _XlcCurrentLC, which returns a pointer
-    which never needs to be passed to _XCloseLC, meaning it has unbounded
-    lifetime, so that locale data can never be freed.
-
-    Remove all reference counting and just leave all locales that were
-    ever used in memory.
-
-    Signed-off-by: Keith Packard <keithp@keithp.com>
-    Acked-by: Martin Peres <martin.peres@mupuf.org>
-
-commit 87a8fd8051b823636c3c4f3c37c4cfd11fdb880d
-Author: Jacek Caban <jacek@codeweavers.com>
-Date: Mon Aug 14 19:20:19 2017 +0200
-
-    Don't cache last lcd in _XlcCurrentLC.
-
-    Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=55678
-    Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=68538
-
    Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=69088
-
-    The way it's currently cached is not thread safe. As long as locale doesn't change, the same object is reused
anyway.
-
-    Signed-off-by: Jacek Caban <jacek@codeweavers.com>
-    Signed-off-by: Keith Packard <keithp@keithp.com>
-    Acked-by: Martin Peres <martin.peres@mupuf.org>
-
-commit 7a38c09b82ee2522d987c3da4af8af186e562c61
-Author: Keith Packard <keithp@keithp.com>
-Date: Sat Nov 7 16:59:37 2020 -0800
-

-    Don't cache converters in _Xlcmbtowc and Xlcwctomb
-
-    These functions were caching encoding conversion functions in static
-    variables which is not thread safe. Let the conversion loader do its
-    job and cache locale to converters there. It's less efficient, but
-    it's also (now) thread safe.
-
-    Signed-off-by: Keith Packard <keithp@keithp.com>
-    Acked-by: Martin Peres <martin.peres@mupuf.org>
-
-commit b52ba5c209165fc2c533b77b86147b31763299f3
-Author:
 Jacek Caban <jacek@codeweavers.com>
-Date: Mon Aug 14 19:20:20 2017 +0200
-
-    Make conv_list thread safe.
-
-    Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=55678
-    Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=68538
-    Fixes: https://bugs.freedesktop.org/show_bug.cgi?id=69088
-    Signed-off-by: Jacek Caban <jacek@codeweavers.com>
-    Signed-off-by: Keith Packard <keithp@keithp.com>
-    Acked-by: Martin Peres <martin.peres@mupuf.org>
-
-commit 8b5ce3a9b1219c81711944880e5a1e1cfad3d956
-Author: Antti Savolainen <antti.savo@gmail.com>
-Date: Wed Sep 16 07:47:26 2020 +0000
-
-    Added DOWNWARD ARROW support
-
-commit 7138826dccba9d538dfb142ce9af1a40d64ea849
-Author: Antti Savolainen <antti.savo@gmail.com>
-Date: Tue Sep 8 00:54:23 2020 +0300
-
-    Added support for UPWARDS ARROW and ALMOST EQUAL TO
-
-    Signed-off-by: Antti Savolainen <antti.savo@gmail.com>
-
-commit 56d59299f7433cdeb88bac970b06eb7df44df5bb
-Author: Jonathan Belsewir <jonbel@jonasund.de>
-Date:
   Thu Nov 5 22:57:50 2020 +0000
-
-    Add less and greater to characters that are difficult to access on some keyboards
-
-commit 5caf45f8d3bebad5b72ac88545adc156ccfd754d
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Fri Oct 23 17:12:22 2020 +0200

-
- nls: Allow all letters with a caron to be composed also with v.
-
- It was strange that the accented letters Ž and ž can be composed with
- sequences that start with "v" ("v Z" and "v z"), but not and and
- Š and š (and other letters with a caron). For these letters, compose
- sequences that start with a "c" had to be used, which was frustrating
- because it is hard to remember that "c" stands for "caron", AND the
- graphically more obvious "v" is right next to it.
-
- (Unfortunately, the sequence "v l" is already taken for vertical line.
- Maybe the compose sequences for vertical line could be reduced to just
- "V L" and "L V"?)
-
- Signed-off-by: Benno Schulenberg
 <bensberg@telfort.nl>
-
-commit 62de4ac9025e2cb3f62a890241c06ebc75acce62
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Sun Nov 1 20:23:55 2020 +0100
-
- nls: vertically align the target column of aliases
-
- Also improve the grammar of the initial comment.
-
- Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit f5b26a16ef959fc6860e9cf58b97a042600900b4
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Sun Nov 1 20:17:05 2020 +0100
-
- nls: remove some twenty aliases that have been obsolete for fifteen years
-
- Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit 3e61f3b49660e081108f06bc514366f1784cb2e0
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Sun Nov 1 19:50:56 2020 +0100
-
- nls: remove country-specific aliases for two constructed languages
-
- These artificial languages are meant to be international and are
- thus not specific to any country. If one would want to support
- aliases
 like ia_FR or ia_CH, then one would also have to support
- ia_AU, ia_DE, ia_ES, et cetera, et cetera. That would be silly.
-
- Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>

-
-commit 3f9c43adde22bb2ab4bef5837bc8401af9bb537c
-Author: Benno Schulenberg <bensberg@telfort.nl>
-Date: Sun Nov 1 17:28:24 2020 +0100
-
-    nls: remove four aliases where the name is identical to the definition
-
-    They were found with:
-
-        while read one two; do
-            if [[$one == $two:]]; then echo $two; fi;
-        done <nls/locale.alias.pre
-
-    Signed-off-by: Benno Schulenberg <bensberg@telfort.nl>
-
-commit 9f9c5365816bdd036fd80d54b22e86764ea4b7a7
-Author: Carlos Garnacho <carlosg@gnome.org>
-Date: Fri Jun 14 17:55:14 2019 +0200
-
-    Add XSetIOErrorExitHandler() function
-
-    This function complements XSetIOErrorHandler(), allowing to override
-    the default behavior that trusts on I/O errors never coming back
-    (i.e. exit()ing
 the process).
-
-    This is meant as a mechanism for Wayland compositors (that are too
-    a X11 client + compositing manager) to unfasten seatbelts and jump
-    through the car window. It might get lucky and land on a stack of
-    pillows.
-
-    In consequence, some functions labeled as _X_NORETURN can as a
-    matter of fact return. So those hints were removed.
-
-    Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
-    Reviewed-by: Michel Dänzer <mdaenzer@redhat.com>
-
-commit 4cb758019e374fa7c022fe79d28444e13441717b
-Author: Carlos Garnacho <carlosg@gnome.org>
-Date: Fri Jun 14 17:54:47 2019 +0200
-
-    Prepare for _XIOError() possibly returning
-
-    Ensure current state is cut short on _XIOError(), possible reentrancy
-    should be skipped through the XlibDisplayIOError flag checks.
-
-    Signed-off-by: Carlos Garnacho <carlosg@gnome.org>
-    Reviewed-by: Michel Dänzer <mdaenzer@redhat.com>

-
-commit a37986f7a7d4ae9b8292b132dbb0da2885ea919c
-Author:
 Ross Burton <ross.burton@intel.com>
-Date: Wed Jan 22 17:11:23 2020 +0000
-
-    cpprules.in: squash whitespace in generated files
-
-    CPP is used to generate files, but as cpp reads files from the build host the
-    output has a number of blank lines at the beginning which varies depending on
-    what GCC and friends is used.
-
-    Pathalogical example:
-
-     $ cpp -undef -traditional /dev/null
-     # 1 "/dev/null"
-     # 1 "<built-in>"
-     # 1 "<command-line>"
-     # 31 "<command-line>"
-     # 1 "/usr/include/stdc-predef.h" 1 3 4
-
-     # 17 "/usr/include/stdc-predef.h" 3 4
-
-     [40 blank line]
-
-     # 32 "<command-line>" 2
-     # 1 "/dev/null"
-
-    So depending on the content of stdc-predef.h and what other headers CPP will
-    load, the amount of whitespace in the generates files varies. This can result in
-    differences in reproducible environments, and file conflicts in multilib
-    environments.
-
-    As whitespace
 is irrelevant to these machine-readable files, extend the sed to
-    just delete blank lines.
-
-commit 16192ce2a7e462e09f95aa45ce9eaa180e483c43
-Author: Carmina16 <mistresssilvara@hotmail.com>
-Date: Sun Jun 16 02:54:25 2019 +0000
-
-    Adding ia and ie locales
-
-commit caa71668af7fd3ebdd56353c8f0ab90824773969
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Mon Sep 28 16:16:07 2020 -0700
-
-    Use __builtin_popcountl if available to replace Ones() in GetImage.c

-
- If the compiler knows of a better algorithm for counting the number of
- bits set in a word for the target CPU, let it use that, instead of the
- classic algorithm optimized for PDP-6.
-
- Based on libXext commit 490a25e6f8a4d2482af4364c700b68ad11a4d10b
-
- Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit 1a9269a95c353e3de9f4d33bab9f1363d84e79db
-Author: Krzesimir Nowak <qdlacz@gmail.com>
-Date: Mon Jun 1 12:58:30 2020 +0000
-
- Fix leaking
 modifiers string.
-
- Reported by valgrind:
-
- ```
- ==118175== 17 bytes in 1 blocks are definitely lost in loss record 13 of 1,675
- ==118175==   at 0x483A809: malloc (vg_replace_malloc.c:307)
- ==118175==   by 0x5CD1B46: _XlcDefaultMapModifiers (in /usr/lib64/libX11.so.6.3.0)
- ==118175==   by 0x5CD1F1A: XSetLocaleModifiers (in /usr/lib64/libX11.so.6.3.0)
- ==118175==   by 0x496841C: X11_InitKeyboard (SDL_x11keyboard.c:324)
- ==118175==   by 0x496F0CA: X11_VideoInit (SDL_x11video.c:455)
- ==118175==   by 0x494747B: SDL_VideoInit_REAL (SDL_video.c:532)
- ==118175==   by 0x489E886: SDL_InitSubSystem_REAL (SDL.c:206)
- ==118175==   by 0x402634: main (fade.cc:35)
- ```
-
-commit d127217f26df1bf7566c1f372d8b5329a06754ea
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Sun Aug 16 17:03:24 2020 -0700
-
- Exempt XLookupKeysym from XKeycodeToKeysym deprecation warnings
-
- Gets rid of:
- src/xkb/XKBBind.c: In function
 'XLookupKeysym':
- src/xkb/XKBBind.c:234:5: warning: 'XKeycodeToKeysym' is deprecated
- [https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wdeprecated-declarations-Wdeprecated-declarations]
- 234 | return XKeycodeToKeysym(dpy, event->keycode, col);
-      | ^~~~~~
- src/xkb/XKBBind.c:96:1: note: declared here
- 96 | XKeycodeToKeysym(Display *dpy,
-     | ^~~~~~~~~~~~~~~~
-

- Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit a64eb5f478c6ca84ef3457a01f9a7c3db8ecf1e5
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Sun Aug 16 16:50:43 2020 -0700
-
- lcUTF8: Increase string buffer size from 20 to 32 bytes
-
- While we don't expect large enough ints to need it, we don't
- enforce a maximum size, so gcc assumes the worst and warns:
-
- ../../../src/xlibi18n/lcUTF8.c: In function ‘create_tofontcs_conv’:
- ../../../src/xlibi18n/lcUTF8.c:1736:34: warning: ‘.charset.name’ directive
 output may be truncated writing 13 bytes into a region of size between 8 and 17 [-Wformat-truncation=]
-   1736 | snprintf(buf, sizeof(buf), "fs%d.charset.name", i);
-        | ^~~~~~~~~~~~~~
- ../../../src/xlibi18n/lcUTF8.c:1736:2: note: ‘snprintf’ output between 17 and 26 bytes into a destination of size 20
-   1736 | snprintf(buf, sizeof(buf), "fs%d.charset.name", i);
-        | ^~~~~~~
- ../../../src/xlibi18n/lcUTF8.c:1739:46: warning: ‘snprintf’ output may be truncated before the last format
character [-Wformat-truncation=]
-   1739 | snprintf(buf, sizeof(buf), "fs%d.charset", i);
-        | ^
- ../../../src/xlibi18n/lcUTF8.c:1739:6: note: ‘snprintf’ output between 12 and 21 bytes into a destination of size 20
-   1739 | snprintf(buf, sizeof(buf), "fs%d.charset", i);
-        | ^~~~~~~
-
-    ../../../src/xlibi18n/lcUTF8.c:1754:41: warning: ‘.charset.name’ directive output may be truncated writing 13 bytes
into a region of size between 8 and 17 [-Wformat-truncation=]
-   1754 | snprintf(buf, sizeof(buf), "fs%d.charset.name", i);
-        | ^~~~~~~~~~~~~~
- ../../../src/xlibi18n/lcUTF8.c:1754:9: note: ‘snprintf’ output between 17 and 26 bytes into a destination of size 20
-   1754 | snprintf(buf, sizeof(buf), "fs%d.charset.name", i);
-        | ^~~~~~~
- ../../../src/xlibi18n/lcUTF8.c:1757:53: warning: ‘snprintf’ output may be truncated before the last format
character [-Wformat-truncation=]
-   1757 | snprintf(buf, sizeof(buf), "fs%d.charset", i);
-        | ^
- ../../../src/xlibi18n/lcUTF8.c:1757:13: note: ‘snprintf’ output between 12 and 21 bytes into a destination of
 size 20
-   1757 | snprintf(buf, sizeof(buf), "fs%d.charset", i);
-        | ^~~~~~~
-
- Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit 54925250ad9c825bea671dcade5c913bad88abee
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Sun Aug 16 16:33:59 2020 -0700

-
-    i18n: use memcpy instead of strncpy on unterminated char arrays
-
-    Avoids gcc warnings that we're using strncpy wrong to copy a known-length
-    set of characters without a terminating '\0' to a buffer whose length we
-    are checking separately. (Should also be imperceptibly faster since we
-    no longer check if each byte is '\0' when we already know it won't be.)
-
-    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit 8754868dbbbc5fa096282df0504aa7880488eeb9
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Sun Aug 16 16:02:01 2020 -0700
-
-    Mark FreeBlueTblElements
 label unused in LRGB.c
-
-    Quiets gcc 10.2 warning of:
-    src/xcms/LRGB.c: In function ‘LINEAR_RGB_InitSCCData’:
-    src/xcms/LRGB.c:798:1: warning: label ‘FreeBlueTblElements’ defined
-     but not used
-    [https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-label-Wunused-label]
-      798 | FreeBlueTblElements:
-          | ^~~~~~~~~~~~~~~~~~~
-
-    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit 52b0cd67073f2f4665884b5a7decfedeb3b7ca1e
-Author: Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Sun Aug 16 14:54:47 2020 -0700
-
-    Raise minimum required xproto version to 7.0.25 (released 2013-11-23)
-
-    Allows us to depend on _X_COLD directly instead of having to check for it.
-
-    (Since we also use _X_UNUSED, 7.0.22 or later was implicitly required
-     already but not checked for.)
-
-    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit deafb99fd8faf8b044eaee13d072440ce4db76af
-Author:
 Maya Rashish <maya@NetBSD.org>
-Date: Sun Aug 23 21:19:33 2020 +0300
-
-    Avoid the use of "register" keyword in public headers.
-
-    This causes issues when compiling code for C++17.

-
-commit 505420662577749e36640db48f6b6b9ae0236e09
-Author: Matthieu Herrb <matthieu@herrb.eu>
-Date: Mon Aug 24 15:42:25 2020 +0200
-
-    libX11 1.6.12
-
-    Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
-
-commit acdaaadcb3d85c61fd43669fc5dddf0f8c3f911d
-Author: Matthieu Herrb <matthieu@herrb.eu>
-Date: Thu Aug 13 18:02:58 2020 +0200
-
-    Fix an integer overflow in init_om()
-
-    CVE-2020-14363
-
-    This can lead to a double free later, as reported by Jayden Rivers.
-
-    Signed-off-by: Matthieu Herrb <matthieu@herrb.eu>
-
-commit d15c24c8b44be5e4054c8ecd0ff9dcf2c8e18e5b
-Author: Niclas Zeising <zeising@daemonic.se>
-Date: Tue Aug 11 13:44:38 2020 +0200
-
-    Fix input clients connecting to server
-
-    Fix a bug where some input
 clients can't connect to the input server.
-    This fixes #117.
-
-    FreeBSD bugzilla reference:
-    https://bugs.freebsd.org/bugzilla/show_bug.cgi?id=248549
-
-    Signed-off-by: Niclas Zeising <zeising@daemonic.se>
-
-commit 6dd618e5ea8e7558dd8e99a2777ab7b69211789c
-Author: Maya Rashish <maya@NetBSD.org>
-Date: Sat Aug 15 00:48:56 2020 +0300
-
-    Avoid the use of "register" keyword in XkbTranslateKeySym.
-
-    This causes issues when compiling code for C++17.
-    While here, make function prototype match the header with regards
-    to removal of another register keyword.
-
-commit 780d222343098b4bfe3ec529b4a0dc2aadea19bf
-Author: Christopher Chavez <chrischavez@gmx.us>

-Date: Mon Aug 10 17:08:39 2020 +0000
-
-    Fix typo GCCLipYOrigin -> GCClipYOrigin in XCreateGC() manpage
-
-commit 29a8251a456bb7dc10146b4713f499a624d6dacd
-Author: Felix Yan <felixonmars@archlinux.org>
-Date: Thu Aug 6 16:03:38 2020 +0000
-
-    Correct a typo in GetStCmap.c
-
-commit 0d8f038db83f68724a84ef9d4ccd0d5e33ec6a70
-Author:
 Alan Coopersmith <alan.coopersmith@oracle.com>
-Date: Thu Aug 6 08:07:57 2020 -0700
-
-    libX11 1.6.11
-
-    Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
-
-commit 93fce3f4e79cbc737d6468a4f68ba3de1b83953b
-Author: Yichao Yu <yyc1992@gmail.com>
-Date: Sun Aug 2 13:43:58 2020 -0400
-
-    Fix size calculation in `_XimAttributeToValue`.
-
-    The check here guards the read below.
-    For `XimType_XIMStyles`, these are `num` of `CARD32` and for `XimType_XIMHotKeyTriggers`
-    these are `num` of `XIMTRIGGERKEY` ref[1] which is defined as 3 x `CARD32`.
-    (There are data after the `XIMTRIGGERKEY` according to the spec but they are not read by this
-    function and doesn't need to be checked.)
-
-    The old code here used the native datatype size instead of the wire protocol size causing
-    the check to always fail.
-
-    Also fix the size calculation for the header (size). It is 2 x CARD16 for both
 types
-    despite the unused `CARD16` for `XimType_XIMStyles`.
-
-    [1] https://www.x.org/releases/X11R7.6/doc/libX11/specs/XIM/xim.html#Input_Method_Styles
-
-    This fixes a regression caused by 388b303c62aa35a245f1704211a023440ad2c488 in 1.6.10.
-
-    Fix #116
-
commit 9949364ea761ab7efa2a9930ec7718f966a740c0
Author: Matthieu Herrb <matthieu@herrb.eu>
Date: Thu Jul 30 21:36:22 2020 +0200
--- libx11-1.7.2.orig/autogen.sh

```
+++ libx11-1.7.2/autogen.sh
@@ -0,0 +1,17 @@
+#! /bin/sh
+
+srcdir=`dirname "$0"`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd "$srcdir"
+
+autoreconf -v --install || exit 1
+cd "$ORIGDIR" || exit $?
+
+git config --local --get format.subjectPrefix >/dev/null 2>&1 ||
+    git config --local format.subjectPrefix "PATCH libX11"
+
+if test -z "$NOCONFIGURE"; then
+    exec "$srcdir"/configure "$@"
+fi
--- libx11-1.7.2.orig/debian/README.source
+++ libx11-1.7.2/debian/README.source
@@ -0,0 +1,55 @@
+----------------------------------------------------
+Quick
 Guide To Patching This Package For The Impatient
+----------------------------------------------------
+
+1. Make sure you have quilt installed
+2. Unpack the package as usual with "dpkg-source -x"
+3. Run the "patch" target in debian/rules
+4. Create a new patch with "quilt new" (see quilt(1))
+5. Edit all the files you want to include in the patch with "quilt edit"
+   (see quilt(1)).
+6. Write the patch with "quilt refresh" (see quilt(1))
+7. Run the "clean" target in debian/rules
+
+Alternatively, instead of using quilt directly, you can drop the patch in to
+debian/patches and add the name of the patch to debian/patches/series.
+
+While building from git, dpkg-source can complain about symlinks vs.
+normal files mismatches. To work around this issue, before uploading,
+and without committing:
+
+  find -type l | while read dest; do src=$(readlink -f $dest); rm $dest; cp $src $dest; done
+
+-----------------------------------
+Guide To The X Strike Force
```

```
 Packages
+-----------------------------------
+
+The X Strike Force team maintains X packages in git repositories on
+git.debian.org in the pkg-xorg subdirectory. Most upstream packages
+are actually maintained in git repositories as well, so they often
+just need to be pulled into git.debian.org in a "upstream-*" branch.
+Otherwise, the upstream sources are manually installed in the Debian
+git repository.
+
+The .orig.tar.gz upstream source file could be generated using this
+"upstream-*" branch in the Debian git repository but it is actually
+copied from upstream tarballs directly.
+
+Due to X.org being highly modular, packaging all X.org applications
+as their own independent packages would have created too many Debian
+packages. For this reason, some X.org applications have been grouped
+into larger packages: xutils, xutils-dev, x11-apps, x11-session-utils,
+x11-utils, x11-xfs-utils, x11-xkb-utils, x11-xserver-utils.
+Most packages, including the X.org server itself and all libraries
+and
 drivers are, however maintained independently.
+
+The Debian packaging is added by creating the "debian-*" git branch
+which contains the aforementioned "upstream-*" branch plus the debian/
+repository files.
+When a patch has to be applied to the Debian package, two solutions
+are involved:
+* If the patch is available in one of the upstream branches, it
+  may be git'cherry-picked into the Debian repository. In this
+  case, it appears directly in the .diff.gz.
+* Otherwise, the patch is added to debian/patches/ which is managed
+  with quilt as documented in /usr/share/doc/quilt/README.source.
--- libx11-1.7.2.orig/debian/changelog
+++ libx11-1.7.2/debian/changelog
@@ -0,0 +1,1118 @@
+libx11 (2:1.7.2-1+deb11u2) bullseye-security; urgency=medium
+
+  * CVE-2023-43785: out-of-bounds memory access in _XkbReadKeySyms()
+  * CVE-2023-43786: stack exhaustion from infinite recursion in PutSubImage()
+  * CVE-2023-43787: integer overflow in XCreateImage() leading to a heap overflow
+
   * XPutImage: clip images to maximum height & width allowed by protocol
+  * XCreatePixmap: trigger BadValue error for out-of-range dimensions
+
+ -- Julien Cristau <jcristau@debian.org>  Tue, 03 Oct 2023 11:01:59 +0200
+
+libx11 (2:1.7.2-1+deb11u1) bullseye-security; urgency=high
```

+
+ * Non-maintainer upload by the Security Team.
+ * InitExt.c: Add bounds checks for extension request, event, & error codes
+   (CVE-2023-3138) (Closes: #1038133)
+
+ -- Salvatore Bonaccorso <carnil@debian.org> Thu, 15 Jun 2023 21:58:56 +0200
+
+libx11 (2:1.7.2-1) unstable; urgency=medium
+
+ [Timo Aaltonen]
+ * New upstream release. (Closes: #990998)
+
+ [Julien Cristau]
+ * Fix Vcs-Git control field.
+
+ -- Timo Aaltonen <tjaalton@debian.org> Mon, 26 Jul 2021 11:29:39 +0300
+
+libx11 (2:1.7.1-1) unstable; urgency=medium
+
+ [Julien Cristau]
+ * libx11-6 Breaks old libx11-xcb1, as further mitigation for bug
+   #979590.
+
+ [Emilio Pozuelo Monfort]
+ * New upstream release.
+ *
 CVE-2021-31535: X protocol command injection due to missing request
+   length checks (closes: #988737)
+
+ -- Emilio Pozuelo Monfort <pochu@debian.org> Wed, 19 May 2021 17:22:09 +0200
+
+libx11 (2:1.7.0-2) unstable; urgency=medium
+
+ * Set a strict dependency of libx11-xcb1 on libx11-6, as internal ABI
+   may change across releases - and indeed did change between 1.6.12 and
+   1.7.0 (closes: #979590)
+ * Update upstream git URL in package descriptions.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 11 Jan 2021 12:15:25 +0100
+
+libx11 (2:1.7.0-1) unstable; urgency=medium
+
+ * New upstream release.
+ * patches: Refreshed.
+ * signing-key: Added key from Keith Packard.
+ * symbols: Updated.
+
+ -- Timo Aaltonen <tjaalton@debian.org> Wed, 06 Jan 2021 20:47:58 +0200

+
+libx11 (2:1.6.12-1) unstable; urgency=medium
+
+ * New upstream release.
+ * 001_xim_regression.diff: Dropped, upstream.
+
+ -- Timo Aaltonen <tjaalton@debian.org> Thu, 17 Sep 2020 13:11:41 +0300
+
+libx11
 (2:1.6.10-3) unstable; urgency=medium
+
+ * Fix 001_xim_regression.diff to actually build.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 03 Aug 2020 08:44:37 +0200
+
+libx11 (2:1.6.10-2) unstable; urgency=medium
+
+ * Fix regression introduced in 1.6.10 (closes: #966691)
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 02 Aug 2020 18:58:23 +0200
+
+libx11 (2:1.6.10-1) unstable; urgency=medium
+
+ * New upstream release
+   + fixes heap corruption in the X input method client (CVE-2020-14344)
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 01 Aug 2020 12:50:40 +0200
+
+libx11 (2:1.6.9-2) unstable; urgency=medium
+
+ * control: Depend on x11proto-dev instead of the old protos, bump the
+   version.
+ * control: libx11-dev Replaces old x11proto-dev. (Closes: #952589)
+
+ -- Timo Aaltonen <tjaalton@debian.org> Wed, 26 Feb 2020 18:40:14 +0200
+
+libx11 (2:1.6.9-1) unstable; urgency=medium
+
+ * New upstream release.
+ * control: Use debhelper-compat, bump to 12.
+ * signing-key.asc:
 Add Adam Jackson's key.
+ * rules: Remove .la files before install.
+ * rules: Use -a instead of -s for dh_makeshlibs.
+ * watch: Update upstream url.
+ * control: Bump policy to 4.5.0.
+
+ -- Timo Aaltonen <tjaalton@debian.org> Wed, 26 Feb 2020 14:32:15 +0200

+
+libx11 (2:1.6.8-1) unstable; urgency=medium
+
+ [Timo Aaltonen]
+ * New upstream release.
+ * patches: Refreshed.
+
+ [Helmut Grohne]
+ * Move documentation dependencies to Build-Depends-Indep. (Closes: #928878)
+
+ -- Timo Aaltonen <tjaalton@debian.org> Wed, 18 Sep 2019 17:09:31 +0300
+
+libx11 (2:1.6.7-1) unstable; urgency=medium
+
+ * New upstream release.
+   - fix video freezing in firefox with amdgpu
+ * upstream: Add key from Matt Turner.
+
+ -- Timo Aaltonen <tjaalton@debian.org> Tue, 09 Oct 2018 18:03:26 +0300
+
+libx11 (2:1.6.6-1) unstable; urgency=medium
+
+ * New upstream release.
+   - Fixes CVE-2018-14598, CVE-2018-14599 and CVE-2018-14600.
+ * Move libx11-doc from Recommends
 to Suggests (Closes: #648443).
+ * Add debian/README.source
+ * Set source format to 1.0.
+ * Bump standards version to 4.2.0.
+
+ -- Andreas Boll <aboll@debian.org> Wed, 22 Aug 2018 21:22:31 +0200
+
+libx11 (2:1.6.5-1) unstable; urgency=medium
+
+ * Add Matt Turner's key to d/u/signing-key.asc
+ * New upstream release.
+ * Update VCS metadata for move to salsa.
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 18 Mar 2018 16:22:50 +0100
+
+libx11 (2:1.6.4-3) unstable; urgency=high
+
+ [Emilio Pozuelo Monfort]
+ * debian/libx11-6.symbols: use arch-bits=64 rather than listing all
+   64-bits architectures, which is not future-proof.
+
+ [Julien Cristau]
+ * Fix two regressions introduced in 2:1.6.4-1:

+   + Fix wrong Xfree in XListFonts failure path
+   + Revert cs_CZ.UTF-8 XLC_LOCALE to en_US.UTF-8 (closes: #847345)
+ * Build-depend on dpkg-dev 1.18.0 for arch-bits support in dpkg-gensymbols.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 28 Jan 2017 00:06:50 +0100
+
+libx11
 (2:1.6.4-2) unstable; urgency=medium
+
+ * Fix arch:all-only build.
+
+ -- Emilio Pozuelo Monfort <pochu@debian.org> Tue, 06 Dec 2016 09:47:08 +0100
+
+libx11 (2:1.6.4-1) unstable; urgency=medium
+
+ [Andreas Boll]
+ * New upstream release.
+   - Fixes CVE-2016-7942 and CVE-2016-7943 (Closes: #840439).
+ * Bump libxcb1-dev build-dep to 1.11.1 per configure.ac.
+ * Update a bunch of URLs in packaging to https.
+
+ [Julien Cristau]
+ * Update d/upstream/signing-key.asc with Matthieu Herrb's key.
+
+ [Emilio Pozuelo Monfort]
+ * Cherry-pick upstream commit 20a3f99 to plug a memory leak in the
+   security fix.
+ * Bump debhelper compat to 10.
+ * Switch from old debhelper to dh.
+ * Drop workaround for old tarballs not shipping some files.
+ * Switch to -dbgsym packages.
+ * Bump Standards-Version to 3.9.8, no changes.
+ * Drop libtool and automake build dependencies, debhelper takes
+   care of that for us now.
+
+ -- Emilio Pozuelo Monfort <pochu@debian.org>
  Tue, 06 Dec 2016 01:38:30 +0100
+
+libx11 (2:1.6.3-1) unstable; urgency=medium
+
+ * New upstream release.
+ * Drop 006_tailor_pt_BR.UTF-8_Compose.diff, no longer necessary.
+ * Rediff 003_recognize_glibc_2.3.2_locale_names.diff.
+ * Let uscan verify tarball signatures.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 30 Apr 2015 22:31:01 +0200
+
+libx11 (2:1.6.2-3) unstable; urgency=medium

+
+ [Julien Cristau]
+ * libx11-6.symbols: yet another 64bit arch (ppc64el). Closes: #749728.
+
+ -- Cyril Brulebois <kibi@debian.org> Mon, 18 Aug 2014 01:39:32 +0200
+
+libx11 (2:1.6.2-2) unstable; urgency=low
+
+ [Julien Cristau]
+ * Yet more 64 bit archs in symbols file: mips64{,el} (closes: #722088).
+ * Remove Cyril Brulebois from Uploaders.
+ * Bump debhelper compat level from 5 to 7.
+ * Switch from xsfbs.mk to standard quilt patching.
+
+ [Colin Watson]
+ * Declare libx11-xcb-dev Multi-Arch: same (closes: #727231).
+
+ -- Julien Cristau <jcristau@debian.org>
 Sun, 11 May 2014 18:04:23 +0200
+
+libx11 (2:1.6.2-1) unstable; urgency=low
+
+ [Julien Cristau]
+ * So apparently the 64-bit powerpc port is called ppc64 (closes: #613820).
+
+ [Maarten Lankhorst]
+ * New upstream release.
+
+ -- Maarten Lankhorst <maarten.lankhorst@ubuntu.com> Thu, 03 Oct 2013 09:46:46 +0200
+
+libx11 (2:1.6.1-1) unstable; urgency=low
+
+ [Julien Cristau]
+ * New upstream release
+ * libx11-6.symbols: add powerpc64 to the list of 64bit archs (closes: #613820)
+
+ [Wookey]
+ * Update symbols file for arm64
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 12 Aug 2013 17:55:45 +0200
+
+libx11 (2:1.6.0-1) unstable; urgency=low
+
+ * Bump libx11-dev's x11proto-core-dev dependency to 7.0.17 for _X_NORETURN
+   (closes: #649866).
+ * New upstream release
+   - Fix unbounded recursion when reading resource files (closes: #145048)
+   - XmbLookupString man page no longer warns (closes: #300819)

+   - Fix build with automake 1.13 (closes: #710467)
+ *
 Update 003_recognize_glibc_2.3.2_locale_names.diff.
+ * Update 006_tailor_pt_BR.UTF-8_Compose.diff.
+ * Refresh 008_remove_ko_Compose.diff.
+ * Update 009_remove_th_Compose.diff.
+ * Refresh 015_russian_locale_alias.diff.
+ * Bump shlibs and symbols for _XEatDataWords.
+ * Add new locales to configure.ac so they can get installed.
+ * Disable silent rules.
+ * Use dpkg-buildflags.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 15 Jun 2013 18:31:27 +0200
+
+libx11 (2:1.5.0-1) unstable; urgency=low
+
+ * New upstream release. Visible changes:
+   - Add APL support, yay!
+   - A few duplicated Compose sequences were tweaked or removed. Affected
+   characters are: Ã / µ / Ñ / ñ / ¹ / ² / ³ / Ó / ó / / .
+ * Drop patch, fixed upstream:
+   - 001-configure-check-if-issetugid-is-declared.diff
+
+ -- Cyril Brulebois <kibi@debian.org> Sat, 16 Jun 2012 20:32:52 +0000
+
+libx11 (2:1.4.99.901-2) unstable; urgency=low
+
+ * Add AC_CHECK_DECL(issetugid) to fix FTBFS on kfreebsd
 (closes: #669670).
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 29 Apr 2012 16:55:39 +0200
+
+libx11 (2:1.4.99.901-1) unstable; urgency=low
+
+ * New upstream release candidate (1.5 RC1)
+   - XQueryColors: split a request into multiple requests if necessary
+   (closes: #278984)
+   - Revert "xcb: Add TCP fallback" (closes: #659558)
+ * Don't require (fake)root for debian/rules clean.
+ * Drop xorg-sgml-doctools dependency from libx11-doc, the css is now
+   included in the html files directly. Also add Breaks in addition to the
+   Replaces on old libx11-dev.
+ * Add build-indep and build-arch targets, don't build specs in build-arch.
+ * Rediff 006_tailor_pt_BR.UTF-8_Compose.diff and
+   015_russian_locale_alias.diff.
+ * Upload to unstable.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 19 Apr 2012 22:58:30 +0200

```
+
+libx11 (2:1.4.99.1-1) experimental; urgency=low
+
+  [ Julien Cristau ]
+  * Move xorg-sgml-doctools dependency from -dev to -doc.
+  * Move
 libx11-doc from section libdevel to doc (closes: #648706).
+
+  [ Cyril Brulebois ]
+  * New upstream release candidate:
+    - Bug fixes, specs clean-up, new compose sequences.
+    - Add GetRequestSized.
+  * Bump xorg-sgml-doctools build-dep.
+  * Refresh patch:
+    - 006_tailor_pt_BR.UTF-8_Compose.diff
+  * Add symbol:
+    - _XGetRequest@Base
+  * Bump shlibs accordingly, for the udeb.
+
+ -- Cyril Brulebois <kibi@debian.org>  Thu, 22 Dec 2011 12:58:15 +0100
+
+libx11 (2:1.4.4-4) unstable; urgency=low
+
+  * debian/rules: since the documentation is moved to libx11-doc, the
+    exception handling for libx11-xcb-dev needs to also look at libx11-doc,
+    not libx11-dev.
+
+ -- Steve Langasek <vorlon@debian.org>  Fri, 11 Nov 2011 06:51:51 -0800
+
+libx11 (2:1.4.4-3) unstable; urgency=low
+
+  * Split documentation out from libx11-dev into a separate libx11-doc
+    package, so that libx11-dev can be multiarch co-installable.
+
+ -- Steve Langasek <vorlon@debian.org>  Wed, 09 Nov 2011
 12:13:26 -0800
+
+libx11 (2:1.4.4-2) unstable; urgency=low
+
+  [ Colin Watson ]
+  * Fix cross-compilation breakage due to a typo in the multiarch patch
+    (closes: #642402)
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 22 Sep 2011 17:42:39 +0200
+
+libx11 (2:1.4.4-1) unstable; urgency=low
+
+  * New upstream release.
```

+ * Drop xorg.css from libx11-dev, depend on xorg-sgml-doctools instead.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 30 Jul 2011 22:14:56 +0200
+
+libx11 (2:1.4.3-3) unstable; urgency=low
+
+ [Julien Cristau]
+ * Add lintian override for the libx11-private dep in libx11-6.symbols.
+
+ [Cyril Brulebois]
+ * Fix the FTBFS on s390x (Closes: #635692): Add s390x to the list of
+   64-bit architectures in the symbols file. Thanks, Aurélien Jarno!
+
+ -- Cyril Brulebois <kibi@debian.org> Thu, 28 Jul 2011 15:08:36 +0200
+
+libx11 (2:1.4.3-2) unstable; urgency=low
+
+ * Team upload.
+
+ [Steve Langasek]
+ * Build for multiarch.
+
+ [Julien Cristau
+]
+ * Bump Standards-Version to 3.9.2.
+ * Properly clean up libtool m4 files.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 11 Jun 2011 14:06:01 +0200
+
+libx11 (2:1.4.3-1) unstable; urgency=low
+
+ * New upstream release:
+   - Add Sinhala support.
+   - Add Docbook external references support.
+ * Bump x11proto-core-dev build-dep to make defining XK_SINHALA useful.
+ * Bump xutils-dev build-dep for newer macros.
+
+ -- Cyril Brulebois <kibi@debian.org> Tue, 05 Apr 2011 23:42:05 +0200
+
+libx11 (2:1.4.2-1) unstable; urgency=low
+
+ [Timo Aaltonen]
+ * New upstream release. (closes: #463159)
+
+ [Cyril Brulebois]
+ * Bump x11proto-xf86bigfont-dev build-dep.
+
+ -- Cyril Brulebois <kibi@debian.org> Sat, 26 Mar 2011 00:36:43 +0100

+
+libx11 (2:1.4.1-5) unstable; urgency=low
+
+ * Mark x11-data Multi-Arch: foreign.
+
+ -- Steve Langasek <vorlon@debian.org> Mon, 21 Feb 2011 20:01:35 -0800
+
+libx11 (2:1.4.1-4) unstable; urgency=low
+
+ * Bump Standards-Version to
 3.9.1.
+ * specs were converted from groff to xml, so we can ship the html version
+   now.
+ * Drop Build-Dependencies on groff/ghostscript/... since the docs were
+   converted to xml.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 07 Feb 2011 12:36:09 +0100
+
+libx11 (2:1.4.1-3) unstable; urgency=low
+
+ * Remove David Nusinow and Brice Goglin from Uploaders. Thanks for all your
+   work!
+ * Drop Conflicts on sarge-era xlibs-data, Replaces on sarge-era libx11-6,
+   Pre-Depends on x11-common (needed for upgrades from sarge), and Conflicts
+   against pre-XCB libx11-6.
+ * Wrap debian/control Depends fields.
+ * Upload to unstable.
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 06 Feb 2011 22:42:28 +0100
+
+libx11 (2:1.4.1-2) experimental; urgency=low
+
+ * Make libx11-data break earlier versions of libx11-6, since those rely
+   on XKeysymDB, resulting in a non-functional keyboard and plenty of
+   such messages: “Internal error: Could not resolve keysym *”.
+
+
 -- Cyril Brulebois <kibi@debian.org> Tue, 18 Jan 2011 18:47:22 +0100
+
+libx11 (2:1.4.1-1) experimental; urgency=low
+
+ [Julien Cristau]
+ * New upstream release.
+   - lots of fixes for multithreaded apps
+   - X11 users can now compose anarchism (closes: #555938)
+
+ [Robert Hooker]
+ * New upstream release.

+ * Don't install unshipped XKeysymDB.
+ * Bump xutils-dev build-dep to 1:7.5+5 for util-macros 1.11 requirement.
+
+ [Cyril Brulebois]
+ * New new (new) upstream release.
+ * As a temporary measure, add 020_keep_xorg_css.diff to avoid having to
+   depend on xorg-sgml-doctools just for xorg.css.
+ * Refresh all patches.
+ * Some functions got hidden by upstream in aebbf36238, since “none of
+   the functions in Xprivate.h should have any callers outside of Xlib,
+   by definition”. As a consequence, drop the following symbols from
+   libx11-6.symbols:
+   - _XIDHandler@Base
+   - _XSetPrivSyncFunction@Base
+   - _XSetSeqSyncFunction@Base
+ * Drop
 obsolete --enable-man-pages=3 from configure flags.
+ * Pass --with-xmlto and --without-fop for the documentation generation.
+ * Add xmlto, xorg-sgml-doctools, w3m build-dep accordingly.
+ * Remove *.xml before running dh_install, there's no point in shipping
+   those files.
+ * Update debian/copyright from upstream COPYING.
+
+ -- Cyril Brulebois <kibi@debian.org> Thu, 13 Jan 2011 01:18:40 +0100
+
+libx11 (2:1.3.3-3) unstable; urgency=low
+
+ [Julien Cristau]
+ * Drop manpage from libx11-6-udeb.
+ * Don't install X11 locale data in the udeb. The installer uses only gtk
+   apps so this is useless (and big).
+
+ [Cyril Brulebois]
+ * Cherry-pick patch from upstream to run user's synchandlers as well as
+   any internal synchandlers: 75ea8c3793. This fixes xnee issues when
+   RECORD extension is enabled (Closes: #536491; LP: #378648).
+ * Merge xsfbs/debian-unstable to fix double autoreconf runs.
+
+ -- Cyril Brulebois <kibi@debian.org> Tue, 13 Apr 2010 14:46:16
 +0200
+
+libx11 (2:1.3.3-2) unstable; urgency=low
+
+ [Julien Cristau]
+ * Update debian/copyright from upstream COPYING.
+ * Remove myself from Uploaders
+
+ [Brice Goglin]

+ * Remove Jamey Sharp and Josh Triplett from Uploaders, closes: #568274.
+
+ [Cyril Brulebois]
+ * Add udeb needed for the graphical installer: libx11-6-udeb.
+ * Bump the B-D on libxcb1-dev to ensure libx11-6-udeb gets a dependency
+   on libxcb1-udeb.
+ * Bump Standards-Version from 3.8.3 to 3.8.4 (no changes needed).
+ * Add myself to Uploaders.
+
+ -- Cyril Brulebois <kibi@debian.org> Thu, 11 Mar 2010 01:06:06 +0100
+
+libx11 (2:1.3.3-1) unstable; urgency=low
+
+ * xtrans has been fixed to not make us export a weak in6addr_any. Adjust
+   libx11-6.symbols accordingly (closes: #560648).
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+   good reason. Thanks, Colin Watson!
+ * Update symbols file for sparc64 (closes: #560400). Thanks, Aurélien
+   Jarno!
+ * New
 upstream release
+   + fix XCopyGC argument order in manpage (LP: #408337)
+ * Bump xutils-dev build-dep for new util-macros.
+ * Install the Compose man page in libx11-data.
+ * Rediff patches 003_recognize_glibc_2.3.2_locale_names.diff,
+   007_iso8859-15_Compose_fix.diff, 008_remove_ko_Compose.diff,
+   009_remove_th_Compose.diff, 015_russian_locale_alias.diff.
+ * libx11-6.symbols: add xlocaledir, made non-static in 1.3.3.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 16 Jan 2010 22:47:32 +0000
+
+libx11 (2:1.3.2-1) unstable; urgency=low
+
+ [Julien Cristau]
+ * libx11-6.symbols: _XkbReadBufferCopy32, _XkbReadCopyData32 and
+   _XkbWriteCopyData32 are only present on 64-bit architectures.
+ * Unmark the following symbols as private, they're being used:
+   - _XRegisterFilterByMask
+   - _XRegisterFilterByType
+   - _XUnregisterFilter
+   - _XInitKeysymDB
+   - _Xevent_to_mask
+ * Build the Xlib specs and install them in libx11-dev.
+ * Upload to unstable.
+
+
  [Timo Aaltonen]
+ * New upstream release.

+ * Bump the build-dep on xutils-dev (>= 1:7.5~1).
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 23 Nov 2009 20:50:03 +0100
+
+libx11 (2:1.3-1) experimental; urgency=low
+
+ * libx11-6.symbols: mark some more stuff as private.
+ * libx11-6.symbols: add kfreebsd-amd64 tag for 64-bit symbols.
+ * Run dpkg-gensymbols with -c4 to catch mismatches between the symbols file
+   and the library.
+ * New upstream release.
+ * Cherry-pick patch from upstream git to avoid an error in configure due to
+   underquoting.
+ * Fix 006_tailor_pt_BR.UTF-8_Compose.diff to apply on new upstream.
+ * Bump Standards-Version to 3.8.3.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 12 Oct 2009 15:28:23 +0200
+
+libx11 (2:1.2.99.901-1) experimental; urgency=low
+
+ [Brice Goglin]
+ * Bump Standards-Version to 3.8.2.
+
+ [Julien Cristau]
+ * Drop 002_arm_abi_brain_damage.diff, the old ABI arm port is gone.
+ * Use a glob in libx11-6.install
 and libx11-xcb1.install.
+ * Add tentative symbols file for libX11.so.6. Many private symbols still
+   included.
+ * Build-depend on dpkg 1.15.3, to get support for tags in the symbols file.
+ * New upstream release candidate
+   + add {left,right}wards arrow to en_US.UTF-8 compose table
+   (closes: #532117). Thanks, Filippo Giunchedi!
+
+ -- Julien Cristau <jcristau@debian.org> Wed, 05 Aug 2009 17:04:28 +0200
+
+libx11 (2:1.2.2-1) unstable; urgency=low
+
+ [Julien Cristau]
+ * Move dbg packages to new debug section.
+ * Kill preinst which handled upgrades from early Ubuntu versions (before
+   breezy). This is long obsolete.
+
+ [Brice Goglin]
+ * New upstream release.
+   + Fix fi_FI.UTF-8, closes: #519474.
+   + Fix thai XIM filtering keys when NumLock/CapsLock is on, closes: #443800.
+ * Add myself to Uploaders.

```
+
+ -- Brice Goglin <bgoglin@debian.org>  Sun, 19 Jul 2009 19:21:16 +0200
+
+libx11 (2:1.2.1-1) unstable; urgency=low
+
+  * New upstream release.
+
    + fixes fi_FI.UTF-8 locale (closes: #519474)
+     + adds sr_RS locale (closes: #507940)
+     + adds hu_HU.utf8 locale alias (closes: #407573)
+     + Compose entries for some standard mathematical operators
+       (closes: #411734)
+  * Patch 012_ru_RU_UTF-8_XLC_LOCALE.diff removed, applied upstream.
+  * Update patches 003_recognize_glibc_2.3.2_locale_names.diff,
+    006_tailor_pt_BR.UTF-8_Compose.diff and 015_russian_locale_alias.diff.
+  * 003_recognize_glibc_2.3.2_locale_names.diff: don't comment out the
+    microsoft-cp* entries from compose.dir (closes: #511354).  Thanks, Sergei
+    Golovan!
+  * 003_recognize_glibc_2.3.2_locale_names.diff: don't comment out the eo_XX
+    entries from compose.dir and locale.dir (closes: #479058).  Thanks, Luiz
+    Portella!
+  * 009_remove_th_Compose.diff: new patch, comment out the th_TH.UTF-8 entry
+    from compose.dir, to allow Thai XIM as default for X apps
+    (closes: #520509).  Thanks, Theppitak Karoonboonyanan!
+
+ -- Julien
 Cristau <jcristau@debian.org>  Wed, 08 Apr 2009 12:31:21 +0100
+
+libx11 (2:1.2-1) unstable; urgency=low
+
+  * New upstream release.
+  * Remove obsolete ld.so.conf handling from libx11-6 postinst.
+  * Run autoreconf on build; add build-deps on automake, libtool, xutils-dev.
+  * Handle parallel builds.
+  * Refresh patches 003_recognize_glibc_2.3.2_locale_names.diff and
+    012_ru_RU_UTF-8_XLC_LOCALE.diff.
+  * Use a wildcard for usr/share/X11/locale instead of listing every single
+    file.
+
+ -- Julien Cristau <jcristau@debian.org>  Mon, 09 Mar 2009 16:36:09 +0100
+
+libx11 (2:1.1.99.2-1) experimental; urgency=low
+
+  * New upstream release.
+  * Use new xcb socket handoff mechanism, update (build-)dependencies.
+  * Refresh patches.
+  * Build-dep on x11proto-core-dev >= 7.0.13.
+
```

+ -- Julien Cristau <jcristau@debian.org> Mon, 01 Dec 2008 22:37:28 +0100
+
+libx11 (2:1.1.5-2) unstable; urgency=medium
+
+ * Cherry-picked from upstream git: Fix an XCB leak when the client
 has a
+   non-fatal error handler.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 25 Sep 2008 17:45:25 +0200
+
+libx11 (2:1.1.5-1) unstable; urgency=low
+
+ [Brice Goglin]
+ * Add upstream URL to debian/copyright.
+ * Add a link to www.X.org and a reference to the upstream module
+   in the long description.
+
+ [Timo Aaltonen]
+ * New upstream release.
+   + adds missing <cedilla> Compose sequences (closes: #394068)
+
+ [Julien Cristau]
+ * 014_add_Khmer_digraphs.diff: remove, applied upstream
+ * 006_tailor_pt_BR.UTF-8_Compose.diff: update
+
+ -- Julien Cristau <jcristau@debian.org> Sun, 14 Sep 2008 19:09:33 +0200
+
+libx11 (2:1.1.4-2) unstable; urgency=low
+
+ * Drop Pre-Depends on x11-common from libx11-6, libx11-data and libx11-xcb1.
+ * Pull from upstream libX11-1.1-branch
+   + fixes Compose sequences for finnish keyboards (closes: #467142)
+   + interrobang has been added to the en_US.UTF-8 Compose file
+   (closes: #300160)
+ * Update patch 006_tailor_pt_BR.UTF-8_Compose.diff,
 refresh others.
+ * Drop the NEWS entry about sun java. sun-java6 is now fixed, and libxcb
+   doesn't abort() anymore on the locking error.
+ * (Finally) upload Xlib/XCB to unstable.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 09 Jun 2008 16:27:23 +0200
+
+libx11 (2:1.1.4-1) experimental; urgency=low
+
+ [Timo Aaltonen]
+ * control: libx11-data Replaces old versions of libx11-6 to enable
+   upgrades from Ubuntu 6.06.
+

+ [Julien Cristau]
+ * New upstream release
+   + fixes XIM hang when switching input contexts (closes: #437437)
+ * Update patch stack:
+   + 003_recognize_glibc_2.3.2_locale_names.diff: fixup; drop the hunk
+   under #ifdef WIN32, as I don't care enough to fix it
+   + 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff: remove, applied
+   upstream
+   + 005_Compose_fix_latin1_UTF8.diff: remove, applied upstream
+   + 006_tailor_pt_BR.UTF-8_Compose.diff: fixup
+   + 007_iso8859-15_Compose_fix.diff: refresh
+
   + 008_remove_ko_Compose.diff: refresh
+   + 009_iso8859-15_Compose_Eurosign.diff: remove, applied upstream
+   + 012_ru_RU_UTF-8_XLC_LOCALE.diff: refresh
+   + 014_add_Khmer_digraphs.diff: fixup
+   + 015_russian_locale_alias.diff: refresh
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * Drop XS- prefix from Vcs-* control fields.
+ * Fix malformed trailer line in libx11-6.NEWS (thanks, lintian).
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 08 Mar 2008 03:13:07 +0100
+
+libx11 (2:1.1.3-1) experimental; urgency=low
+
+ [Julien Cristau]
+ * New upstream release.
+   + Fix locking in _XimGetWindowEventmask (closes: #427296).
+   + fix XGetMotionEvents arguments order (closes: #431421).
+   + XGetCommand(3) clarified (closes: #133348).
+   + XrmCombineDatabase(3) fixed (closes: #393434).
+ * Install the upstream NEWS file in libx11-6 in addition to the git
+   changelog.
+ * Use binary:Version instead of Source-Version in debian/control.
+
+ [Josh Triplett
 ]
+ * Expand the description of the problem with Sun Java in libx11-6.NEWS.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 02 Aug 2007 04:13:46 +0200
+
+libx11 (2:1.1.2-1) experimental; urgency=low
+
+ [Brice Goglin]
+ * Drop -DLIBXCURSOR from CFLAGS since upstream default is now correct
+   (closes: #392618).
+ * Add en_DK.ISO-8859-15 to 003_recognize_glibc_2.3.2_locale_names.diff
+   Thanks Kaare Hviid. (closes: #419192).

+
+ [Julien Cristau]
+ * Add XS-Vcs-Git and XS-Vcs-Browser in debian/control.
+ * New upstream release:
+   + typo in XRecolorCursor.man fixed, closes: #225839;
+   + XRegisterIMInstantiateCallback manpage fixed, closes: #232133;
+   + XGetVisualInfo manpage fixed, closes: 399094;
+   + greek Compose file updated, patch 016_greek_polytonic_Compose.diff
+   dropped;
+   + file descriptor leak in modules/im/ximcp/imLcPrs.c:parseline() fixed,
+   patch 021_compose_fclose.diff dropped;
+   + fix for CVE-2007-1667 included, patch 022_CVE-2007-1667.diff
 dropped.
+ * Add a watch file.
+ * Don't run dh_install with --list-missing in binary-indep, there are too
+   many false positives for it to be useful.
+ * Document workarounds for sun-java5-bin and sun-java6-bin in libx11-6.NEWS.
+ * Strip all packages, not just the shared libs.
+
+ -- Julien Cristau <jcristau@debian.org> Wed, 06 Jun 2007 04:46:09 +0200
+
+libx11 (2:1.1.1-1) experimental; urgency=low
+
+ [Michel Dänzer]
+ * libx11-dev Depends: libxcb-xlib0-dev, because x11.pc references xcb-xlib
+   (closes: #410117).
+
+ [Julien Cristau]
+ * New upstream release.
+ * Install upstream ChangeLog.
+ * libx11-dev doesn't seem to need to depend on libxext-dev
+   (closes: #366676).
+ * Use dh_installman in debian/rules to replace ".so" links with symlinks.
+
+ -- Julien Cristau <jcristau@debian.org> Fri, 9 Feb 2007 01:17:05 +0100
+
+libx11 (2:1.1-2) experimental; urgency=low
+
+ [Josh Triplett]
+ * Include some upstream post-1.1 fixes in debian/patches:
+
    * "Bug #9153: Fix access to freed memory."
+   * "Bug #9154: Always process an event for _XReadEvents, even if an error
+   occurs"; fixes an assertion failure, first observed with xcompmgr.
+   * "Debian bug #354315: Clarify return value in XGetWindowAttributes man
+   page" (closes: 354315)
+ * Fix override discrepancies: library packages go in libs, -dbg and -dev
+   packages go in libdevel. Fix for both the libx11 packages and the new

+   libx11-xcb packages.
+
+ -- Josh Triplett <josh@freedesktop.org> Sat, 25 Nov 2006 14:37:58 -0800
+
+libx11 (2:1.1.1-1) experimental; urgency=low
+
+ [Josh Triplett, Jamey Sharp]
+ * New upstream version.
+ * Add ourselves to Uploaders.
+ * Forward-port patches:
+   * 001_no_xkb_in_pc_file.diff: update
+   * 003_recognize_glibc_2.3.2_locale_names.diff: update
+   * 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff: update
+   * 005_Compose_fix_latin1_UTF8.diff: update
+   * 010_manpage_suffixes.diff: delete, applied upstream
+
    * 012_ru_RU_UTF-8_XLC_LOCALE.diff: update
+   * 014_add_Khmer_digraphs.diff: update
+   * 015_russian_locale_alias.diff: update
+   * 016_greek_polytonic_Compose.diff: update
+   * 019_new_autoconf.diff: delete, applied upstream
+   * 020_CVE-2006-5397.diff: delete, applied upstream
+ * Stop registering /usr/X11R6/lib in /etc/ld.so.conf in the postinst;
+   instead, deregister it if no libraries remain in it. Remove deregistration
+   in postrm, and remove now-unnecessary postrm.
+ * Add Build-Depends on libxcb1-dev >= 0.9.92 and libxcb-xlib0-dev >= 0.9.92.
+ * Remove Build-Depends not needed with Xlib/XCB: bigreqsproto, xcmiscproto,
+   libxau-dev, and libxdmcp-dev.
+ * libx11-dev has some unnecessary Depends, but other packages currently rely
+   on them, so removal will wait until a later version.
+ * Add library, -dev, and -dbg packages for new library libX11-xcb. Modify
+   rules to handle these new packages.
+ * libX11-xcb Conflicts: libx11-6 (<< 2:1.1),
 since it requires a version with
+   Xlib/XCB.
+ * Add a NEWS.Debian to libx11-6, with Xlib/XCB information.
+ * Add XS-Vcs-Git field.
+ * Remove old upstream CVS information from package descriptions.
+ * Reword package descriptions to stop calling Xlib "the" client interface.
+
+ -- Josh Triplett <josh@freedesktop.org> Fri, 24 Nov 2006 17:36:55 -0800
+
+libx11 (2:1.0.3-7) unstable; urgency=high
+
+ * Grab patch from upstream git to fix CVE-2007-1667 (the patch included in
+   2:1.0.3-6 was incomplete). This closes: #414045.
+
+ -- Julien Cristau <jcristau@debian.org> Tue, 03 Apr 2007 18:45:51 +0200

```
+
+libx11 (2:1.0.3-6) unstable; urgency=high
+
+  * Add patch by Daniel Kobras <kobras@debian.org> to add more input
+    validation to XInitImage(), to fix security issues (closes: #414045).
+
+ -- Julien Cristau <jcristau@debian.org>  Fri,  9 Mar 2007 02:23:06 +0100
+
+libx11 (2:1.0.3-5) unstable; urgency=high
+
+  * Remove /usr/X11R6/lib from /etc/ld.so.conf in postinst
 if it's no longer
+    needed, instead of adding it there.
+  * Add patch 021_compose_fclose.diff to fix file descriptor leak when a
+    Compose file uses the "include" directive.  Urgency high because this bug
+    can have security implications.
+  * Add myself to Uploaders, and remove Fabio and Branden with their
+    permission.
+
+ -- Julien Cristau <julien.cristau@ens-lyon.org>  Thu,  1 Feb 2007 13:09:20 +0100
+
+libx11 (2:1.0.3-4) unstable; urgency=low
+
+  * Some patches got lost in the upgrade from 1.0.0 (2:1.0.0-9) to 1.0.3:
+    - 015_russian_locale_alias.diff.  Closes: #368655.
+      This aligns with the glibc russian definition of ru_RU.KOI8-R in
+      /usr/share/locale/locale.alias.  Note that this only applies to
+      Debian's glibc, see bug #62586 and glibc 2.2.5-4. Because of the
+      constraint implosed by glibc in /usr/share/i18n/locales/ru_RU,
+      we cannot likewise change ru and ru_RU away from ISO8859-5.
+      They really should be using ru_RU.UTF-8 anyway.
+
   - 016_greek_polytonic_Compose.diff. Closes: #386471.
+    - 017_FTBFS_makekeys.diff can be left out since it is applied in 1.0.3.
+
+ -- Drew Parsons <dparsons@debian.org>  Wed, 22 Nov 2006 00:26:36 +1100
+
+libx11 (2:1.0.3-3) unstable; urgency=high
+
+  [ Julien Cristau ]
+  * Urgency high for security bugfix (CVE-2006-5397).
+  * Add patch 020_CVE-2006-5397 to fix double fopen() of compose file
+  (closes: #398460).  Thanks to Stefan Fritsch for the report.
+
+ -- David Nusinow <dnusinow@debian.org>  Tue, 14 Nov 2006 19:56:01 -0500
+
+libx11 (2:1.0.3-2) unstable; urgency=low
+
```

+ [Denis Barbier]
+ * Drop --enable-loadable-i18n from confflags, it does not work with 1.0.3.
+   Closes: #392567 Thanks Jérôme Marant
+
+ -- David Nusinow <dnusinow@debian.org> Fri, 13 Oct 2006 13:25:59 -0400
+
+libx11 (2:1.0.3-1) unstable; urgency=low
+
+ [David Nusinow]
+ * New upstream release
+ * Dump obsolete patch 10 for manpage fix and 13 for setuid fix
+ * Run dh_install with --list-missing
+
   * Remove obsolete patch 011
+ * Bump debhelper compat to 5
+ * Upstream fix allows building in gnu environments. Thanks Samuel
+   Thibault, Robert Millan, and Michael Banck. Closes: #358708
+ * Add 019_new_autoconf.diff to allow us to not break the server in
+   horrendous ways using newer versions of autoconf. Thanks to Jamey Sharp
+   for pointing this patch out in upstream HEAD.
+ * Add 010_manpage_suffixes.diff to dynamically generate the internal manpage
+   section using __libmansuffix__ the same way the actual file suffix is
+   generated, so that they match and lintian becomes useful again here
+ * Add pre-depends on x11-common for the -dev package
+
+ [Denis Barbier]
+ * Sync patches:
+   - 003_recognize_glibc_2.3.2_locale_names.diff
+   - 005_Compose_fix_latin1_UTF8.diff
+   - 006_tailor_pt_BR.UTF-8_Compose.diff
+   - 014_add_Khmer_digraphs.diff
+ * Add 014_add_Khmer_digraphs.diff. Khmer keyboards have to generate
+   several characters with
  a single keystroke, so define them in
+   en_US.UTF-8/Compose. They will be added later to all UTF-8 files.
+   Thanks Paul Wise. (closes: #355957)
+ * Add support for Khmer locale in 003_recognize_glibc_2.3.2_locale_names.diff
+
+ [Andres Salomon]
+ * Test for obj-$(DEB_BUILD_GNU_TYPE) before creating it during build;
+   idempotency fix.
+
+ [Drew Parsons]
+ * dbg package has priority extra.
+
+ -- David Nusinow <dnusinow@debian.org> Tue, 10 Oct 2006 22:34:36 -0400
+
+libx11 (2:1.0.0-9) unstable; urgency=low

+
+ * Add 015_russian_locale_alias.diff. Locale alias for russian was incorrect,
+   it should be ru_RU.KOI8-R as in glibc locale.alias. Thanks Andrei Lahun.
+   (closes: #368655)
+ * Add 016_greek_polytonic_Compose.diff. Add compose sequences with the
+   right breathing signs U0313/U0314 to el_GR.UTF-8/Compose.
+   Thanks Jan Willem Stumpel. (closes: #386471)
+ * Add 017_FTBFS_makekeys.diff. Fix a FTBFS when compiling with
+   x11proto-core-dev >=
 7.0.3, backported from upstream.
+   Thanks Goswin von Brederlow. (closes: #387133)
+
+ -- Denis Barbier <barbier@debian.org> Thu, 14 Sep 2006 01:35:19 +0200
+
+libx11 (2:1.0.0-8) unstable; urgency=low
+
+ * Add 18_nonlinux.diff to fix building in gnu environments. Thanks Samuel
+   Thibault, Robert Millan, and Michael Banck. Closes: #358708
+
+ -- David Nusinow <dnusinow@debian.org> Wed, 27 Sep 2006 21:07:10 -0400
+
+libx11 (2:1.0.0-7) unstable; urgency=high
+
+ * Security update. Fix for setuid privledge escalation vulernabilities.
+   See http://lists.freedesktop.org/archives/xorg/2006-June/016146.html for
+   the full advisory.
+ * Bump standards version to 3.7.2.0
+
+ -- David Nusinow <dnusinow@debian.org> Sat, 1 Jul 2006 17:05:07 -0400
+
+libx11 (2:1.0.0-6) unstable; urgency=low
+
+ * Remove libx11-dev's dependencies on libxi-dev and libxkbfile-dev. Add a
+   dependency on x11proto-input-dev instead. This should break some circular
+   dependencies. Thanks go yet
 again to Kurt Roeckx.
+
+ -- David Nusinow <dnusinow@debian.org> Tue, 11 Apr 2006 18:17:46 -0400
+
+libx11 (2:1.0.0-5) unstable; urgency=low
+
+ * Upload to unstable
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:26 -0500
+
+libx11 (2:1.0.0-4) experimental; urgency=low
+
+ [David Nusinow]

+ * Remove libx11-dev versioned dependency on libxext-dev. This was preventing
+   bootstrapping of libxext. Thanks Eugene Konev.
+
+ [Denis Barbier]
+ * Add Build-Depends: x11proto-input-dev, quilt. Thanks Kurt Roeckx.
+   (Closes: #356918).
+
+ -- David Nusinow <dnusinow@debian.org> Tue, 21 Mar 2006 19:55:58 -0500
+
+libx11 (2:1.0.0-3) experimental; urgency=low
+
+ [David Nusinow]
+ * Stop using the xsfbs autoreconf script. The main beneft of using quilt in
+   keeping the patches separate is for submitting things upstream and porting
+   our changes between upstream releases. Keeping the automatically generated
+   build system stuff in patches also doesn't
 fall under this use category.
+ * Make libx11-6 conflict with xlibs-data. Thanks Kurt Roeckx.
+   (closes: #356415)
+
+ -- David Nusinow <dnusinow@debian.org> Sun, 12 Mar 2006 14:00:31 -0500
+
+libx11 (2:1.0.0-2) experimental; urgency=low
+
+ [David Nusinow]
+ * Properly install all the contents of /usr/lib/X11/locale. Thanks Zephenia
+   E. Hull.
+ * Provide versioned build-depends on the X libs. Thanks Kurt Roeckx.
+   (closes: #354161)
+ * Provide libx11-dev dependencies on libxdmcp-dev.
+   Thanks Kurt Roeckx. (closes: #354167)
+ * Add a bunch of depends to libx11-dev from the monolith. Thanks Eugene
+   Konev for the pointer.
+ * Add 001_no_xkb_in_pc_file.diff because we don't need x11proto-input-dev.
+   Thanks Eugene Konev.
+
+ [Eugene Konev]
+ * Move locale data in separate libx11-data package. Make libx11-6 depend
+   on it.
+ * libx11-6.install.in? Huh? Replaced with libx11-6.install
+ * Add real binary-indep.
+ * Add patches from 6.9:
+   - 002_arm_abi_brain_damage.diff
+
    - 003_recognize_glibc_2.3.2_locale_names.diff
+   - 004_en_US.UTF-8_Compose_fix_Unicode_plane_1.diff
+   - 005_Compose_fix_latin1_UTF8.diff
+   - 006_tailor_pt_BR.UTF-8_Compose.diff

+   - 007_iso8859-15_Compose_fix.diff
+   - 008_remove_ko_Compose.diff
+   - 009_iso8859-15_Compose_Eurosign.diff
+   - 012_ru_RU_UTF-8_XLC_LOCALE.diff
+ * Adjust Pre-depends for libx11-6. Remove depends on x11-common from
+   libx11-dbg and libx11-dev as they depend on libx11-6 anyway.
+ * Run dh_install with --fail-missing if there is checkinstall in
+   DEB_BUILD_OPTIONS
+ * Resurrect libx11-6.post{inst,rm}.in. Add genscripts to build target's
+   dependencies.
+ * Fix libx11-6.preinst.in to include shelllib and define appropriate vars.
+ * Grab fixes for manpages section from Xorg CVS
+   - 010_manpages_fix.diff
+ * Grab ubuntu patch to support XLOCALELIBDIR separate from XLOCALEDIR
+   - 011_stolen_from_ubuntu_xlocalelibdir.diff
+ * Add --enable-loadable-i18n
 to confflags.
+ * Use new xsfbs-autoreconf.mk to do autoreconfing.
+
+ -- Eugene Konev <ejka@imfi.kspu.ru> Mon, 27 Feb 2006 13:45:29 +0700
+
+libx11 (2:1.0.0-1) experimental; urgency=low
+
+ * First upload to Debian
+ * Remove versioned build-dep on x11proto-core-dev, since the first package
+   we'll be uploading will be versioned properly for us
+ * Remove patch dir as the patch has been incorporated by upstream
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:51:20 -0500
+
+libx11 (1:6.2.1+cvs.20050722-8) breezy; urgency=low
+
+ * Fix non-UTF-8 locales by fixing generation of compose.dir, locale.alias,
+   and locale.dir in nls/ (closes: Ubuntu#13724).
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Fri, 30 Sep 2005 16:30:55 +1000
+
+libx11 (1:6.2.1+cvs.20050722-7) breezy; urgency=low
+
+ * Move man pages back to section 3 (closes: Ubuntu#16290).
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Thu, 29 Sep 2005 11:26:11 +1000
+
+libx11 (1:6.2.1+cvs.20050722-6)
 breezy; urgency=low
+
+ * Add libx11-dev Build-Depends on x11proto-kb-dev, so we get XKBstr.h, which
+   makes XKBlib.h usable.

+ * Add foo_t and TRANS_CLIENT defines to Xtrans users; thanks Isaac Richards
+   for the catch (closes: Ubuntu#12052).
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Fri, 19 Aug 2005 15:19:33 +1000
+
+libx11 (1:6.2.1+cvs.20050722-5) breezy; urgency=low
+
+ * Add x-common Pre-Depends to libx11-6, as we ship stuff in
+   /usr/lib/X11.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Thu, 18 Aug 2005 12:12:45 +1000
+
+libx11 (1:6.2.1+cvs.20050722-4) breezy; urgency=low
+
+ * Fix search path for libXcursor.
+ * Add :s to compose.dir to get composition working in apps which use the
+   default X input method (closes: Ubuntu#12184).
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 8 Aug 2005 13:32:12 +1000
+
+libx11 (1:6.2.1+cvs.20050722-3) breezy; urgency=low
+
+ * Make ErrDes.c and StrKeysym.c look for XKEYSYMDB and XERRORDB, not
+   KEYSYMDB and ERRORDB,
 with the pleasant side-effect that they look
+   directly in /usr/share/X11, not /usr/lib/X11, so we can throw the cheesy
+   symlinks away. This fixes some corner cases in hoary upgrades.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 1 Aug 2005 13:17:15 +1000
+
+libx11 (1:6.2.1+cvs.20050722-2) breezy; urgency=low
+
+ * Move locale data back to /usr/share and libraries to /usr/lib. XlcDL.c
+   and lcFile.c hacked to accommodate this, as well as configure.ac. This
+   fixes all the locale problems, AFAICT. (closes: Ubuntu#12142)
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Tue, 26 Jul 2005 23:00:21 +1000
+
+libx11 (1:6.2.1+cvs.20050722-1) breezy; urgency=low
+
+ * Fix locales harder: add the old loadable locale modules back.
+ * Although architecture-independent locale data has been moved to
+   /usr/lib/X11/locale because of limitations in the path-parsing code.
+   Argh!
+ * Bump Build-Depends on x11proto-core-dev to today's CVS; -D_XOPEN_SOURCE
+   begone!
+
+

```
 -- Daniel Stone <daniel.stone@ubuntu.com>  Fri, 22 Jul 2005 22:29:21 +1000
+
+libx11 (1:6.2.1+cvs.20050711-1) breezy; urgency=low
+
+  * New CVS snapshot, incorporating patch #086 from the monolith.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 11 Jul 2005 10:10:44 +1000
+
+libx11 (1:6.2.1+cvs.20050615-5) breezy; urgency=low
+
+  * Bump libx11-6 -> xlibs-data Conflicts/Replaces to -34; Tollef's -33 did
+    not change this.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Tue,  5 Jul 2005 01:41:19 +1000
+
+libx11 (1:6.2.1+cvs.20050615-4) breezy; urgency=low
+
+  * Make Build-Depends and Depends on x11proto-core-dev explicitly >=
+    6.8.99.8-1 (hi LaMont!).
+  * Add symlinks to X{Error,KeySym}DB from /usr/{X11R6/,}lib/X11.  Bump
+    Conflicts on xlibs-data up to -33.  Add symlinks to locale data in
+    /usr/{X11R6,}lib/X11 (closes: Ubuntu#12081).
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Fri, 17 Jun 2005 15:58:44 +1000
+
+libx11 (1:6.2.1+cvs.20050615-3) breezy; urgency=low
+
+
  * Add missing build-depends on:
+    - pkg-config, x11proto-kb-dev, x11proto-input-dev
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Thu, 16 Jun 2005 13:50:14 +0000
+
+libx11 (1:6.2.1+cvs.20050615-2) breezy; urgency=low
+
+  * Move Build-Depends-Indep to Build-Depends to fix FTBFSs.
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Thu, 16 Jun 2005 08:53:59 +0000
+
+libx11 (1:6.2.1+cvs.20050615-1) breezy; urgency=low
+
+  * First libx11 release.
+    + XCB support removed for now.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libx11-1.7.2.orig/debian/control
+++ libx11-1.7.2/debian/control
@@ -0,0 +1,167 @@
```

+Source: libx11
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper-compat (= 12),
+ dpkg-dev (>= 1.18.0),
+ pkg-config,
+ xtrans-dev,
+ x11proto-dev,
+ libxcb1-dev (>= 1.11.1),
+ quilt,
+ xutils-dev (>= 1:7.6+2),
+Build-Depends-Indep:
+# specs
+ xmlto,
+ xorg-sgml-doctools
 (>= 1:1.10),
+ w3m,
+Standards-Version: 4.5.0
+Vcs-Git: https://salsa.debian.org/xorg-team/lib/libx11.git
+Vcs-Browser: https://salsa.debian.org/xorg-team/lib/libx11
+
+Package: libx11-6
+Section: libs
+Architecture: any
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libx11-data,
+Pre-Depends: ${misc:Pre-Depends}
+Breaks:
+ libx11-xcb1 (<< 2:1.7.0-2),
+Multi-Arch: same
+Description: X11 client-side library
+ This package provides a client interface to the X Window System, otherwise
+ known as 'Xlib'. It provides a complete API for the basic functions of the
+ window system.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
+ .
+ This module can be found at
+ https://gitlab.freedesktop.org/xorg/lib/libX11
+
+Package: libx11-6-udeb
+XC-Package-Type: udeb
+Section: debian-installer

+Architecture: any
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+Description: X11 client-side library
+ This is a udeb, or a microdeb, for the debian-installer.
+
+Package:
 libx11-data
+Architecture: all
+Depends:
+ ${misc:Depends},
+Breaks: libx11-6 (<< 2:1.4.1)
+Multi-Arch: foreign
+Description: X11 client-side library
+ This package provides the locale data files for libx11.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
+ .
+ This module can be found at
+ https://gitlab.freedesktop.org/xorg/lib/libX11
+
+Package: libx11-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libx11-6 (= ${binary:Version}),
+ libxau-dev (>= 1:1.0.0-1),
+ libxdmcp-dev (>= 1:1.0.0-1),
+ x11proto-dev (>= 2019.2-1),
+ xtrans-dev,
+ libxcb1-dev,
+Suggests: libx11-doc
+Replaces: x11proto-dev (<< 2019.2)
+Description: X11 client-side library (development headers)
+ This package provides a client interface to the X Window System, otherwise
+ known as 'Xlib'. It provides a complete API for the basic functions of the
+ window system.
+ .
+ This package contains the development headers for
 the library found in
+ libx11-6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:

+ <URL:https://www.X.org>
+ .
+ This module can be found at
+ https://gitlab.freedesktop.org/xorg/lib/libX11
+
+Package: libx11-xcb1
+Section: libs
+Architecture: any
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+ libx11-6 (= ${binary:Version}),
+Pre-Depends: ${misc:Pre-Depends}
+Multi-Arch: same
+Description: Xlib/XCB interface library
+ libX11-xcb provides functions needed by clients which take advantage of
+ Xlib/XCB to mix calls to both Xlib and XCB over the same X connection.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
+ .
+ More information about XCB can be found at:
+ <URL:https://xcb.freedesktop.org>
+ .
+ This module can be found at
+ https://gitlab.freedesktop.org/xorg/lib/libX11
+
+Package: libx11-xcb-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends:
+ ${shlibs:Depends},
+ ${misc:Depends},
+
 libx11-xcb1 (= ${binary:Version}),
+ libxcb1-dev (>= 1.11.1),
+ libx11-dev,
+Description: Xlib/XCB interface library (development headers)
+ libX11-xcb provides functions needed by clients which take advantage of
+ Xlib/XCB to mix calls to both Xlib and XCB over the same X connection.
+ .
+ This package contains the development headers for the library found in
+ libx11-xcb1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
+ .

+ More information about XCB can be found at:
+ <URL:https://xcb.freedesktop.org>
+ .
+ This module can be found at
+ https://gitlab.freedesktop.org/xorg/lib/libX11
+
+Package: libx11-doc
+Section: doc
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ ${misc:Depends},
+Replaces: libx11-dev (<< 2:1.4.4-3)
+Breaks: libx11-dev (<< 2:1.4.4-3)
+Description: X11 client-side library (development documentation)
+ This package provides a client interface to the X Window
 System, otherwise
+ known as 'Xlib'. It provides a complete API for the basic functions of the
+ window system.
+ .
+ This package contains supplemental documentation for the library found in
+ libx11-6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:https://www.X.org>
+ .
+ This module can be found at
+ https://gitlab.freedesktop.org/xorg/lib/libX11
--- libx11-1.7.2.orig/debian/copyright
+++ libx11-1.7.2/debian/copyright
@@ -0,0 +1,944 @@
+This package was downloaded from
+https://xorg.freedesktop.org/releases/individual/lib/
+
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--- libx11-1.7.2.orig/debian/libx11-6-udeb.install
+++ libx11-1.7.2/debian/libx11-6-udeb.install
@@ -0,0 +1,5 @@
+# from libx11-6:
+usr/lib/*/libX11.so.6* usr/lib
+
+# from libx11-data:
+usr/share/X11/XErrorDB
--- libx11-1.7.2.orig/debian/libx11-6.NEWS
+++ libx11-1.7.2/debian/libx11-6.NEWS
@@ -0,0 +1,32 @@
+libx11 (2:1.1-1) experimental; urgency=low
+
+  [ Josh Triplett, Jamey Sharp ]
+  libx11 1.1 includes our work on Xlib/XCB, which uses
 XCB as the Xlib
+  transport layer, and allows a client to use both Xlib and XCB on the
+  same connection. This allows clients to transition from Xlib to XCB
+  incrementally.  libx11-6 1.1 is API- and ABI-compatible with previous
+  versions, and does not require any software or package changes.
+
+  Ideally, you will not notice any
+  change at all.  However, Xlib/XCB includes some additional
+  code to check for bugs in calling software.  If you encounter a problem, you
+  will most likely just see an application disappear, due to having triggered
+  an assertion and aborted.  If you ran the application from a terminal, you
+  can look there to see error output and get more details; otherwise, look at
+  ~/.xsession-errors.  These assertions look like one of these:
+
+    xcb_xlib.c:41: xcb_xlib_lock: Assertion `!c->xlib.lock' failed.
+    xcb_xlib.c:50: xcb_xlib_unlock: Assertion `c->xlib.lock' failed.
+
+  Both of these represent bugs in a caller of libX11, and *not* in
```

```
+  libX11
 or libxcb.  The first assertion means that a caller attempted
+  to lock the display while already locked.  The second assertion means
+  that a caller attempted to unlock the display without having it
+  locked.  If you encounter such bugs, please report a bug against the
+  offending software (*not* libx11-6 or libxcb), provide a backtrace,
+  and X-Debbugs-CC: xcb@lists.freedesktop.org if you need help tracking
+  down the problem.  If the bug always consistently occurs when running
+  the application (or in the case of a library, invoking the library),
+  use severity "important", and raise to "grave" after the etch release.
+
+ -- Josh Triplett <josh@freedesktop.org>  Fri, 24 Nov 2006 17:36:55 -0800
--- libx11-1.7.2.orig/debian/libx11-6.install
+++ libx11-1.7.2/debian/libx11-6.install
@@ -0,0 +1 @@
+usr/lib/*/libX11.so.6*
--- libx11-1.7.2.orig/debian/libx11-6.lintian-overrides
+++ libx11-1.7.2/debian/libx11-6.lintian-overrides
@@ -0,0 +1 @@
+symbols-declares-dependency-on-other-package
 libx11-private
--- libx11-1.7.2.orig/debian/libx11-6.symbols
+++ libx11-1.7.2/debian/libx11-6.symbols
@@ -0,0 +1,1236 @@
+libX11.so.6 libx11-6 #MINVER#
+| libx11-private
+ (optional)KeySymToUcs4@Base 0 1
+ XActivateScreenSaver@Base 0
+ XAddConnectionWatch@Base 0
+ XAddExtension@Base 0
+ XAddHost@Base 0
+ XAddHosts@Base 0
+ XAddPixel@Base 0
+ XAddToExtensionList@Base 0
+ XAddToSaveSet@Base 0
+ XAllPlanes@Base 0
+ XAllocClassHint@Base 0
+ XAllocColor@Base 0
+ XAllocColorCells@Base 0
+ XAllocColorPlanes@Base 0
+ XAllocIconSize@Base 0
+ XAllocNamedColor@Base 0
+ XAllocSizeHints@Base 0
+ XAllocStandardColormap@Base 0
+ XAllocWMHints@Base 0
+ XAllowEvents@Base 0
+ XAutoRepeatOff@Base 0
+ XAutoRepeatOn@Base 0
```

+ XBaseFontNameListOfFontSet@Base 0
+ XBell@Base 0
+ XBitmapBitOrder@Base 0
+ XBitmapPad@Base 0
+ XBitmapUnit@Base 0
+ XBlackPixel@Base 0
+ XBlackPixelOfScreen@Base 0
+ XCellsOfScreen@Base 0
+ XChangeActivePointerGrab@Base 0
+ XChangeGC@Base 0
+ XChangeKeyboardControl@Base 0
+ XChangeKeyboardMapping@Base
0
+ XChangePointerControl@Base 0
+ XChangeProperty@Base 0
+ XChangeSaveSet@Base 0
+ XChangeWindowAttributes@Base 0
+ XCheckIfEvent@Base 0
+ XCheckMaskEvent@Base 0
+ XCheckTypedEvent@Base 0
+ XCheckTypedWindowEvent@Base 0
+ XCheckWindowEvent@Base 0
+ XCirculateSubwindows@Base 0
+ XCirculateSubwindowsDown@Base 0
+ XCirculateSubwindowsUp@Base 0
+ XClearArea@Base 0
+ XClearWindow@Base 0
+ XClipBox@Base 0
+ XCloseDisplay@Base 0
+ XCloseIM@Base 0
+ XCloseOM@Base 0
+ XConfigureWindow@Base 0
+ XConnectionNumber@Base 0
+ XContextDependentDrawing@Base 0
+ XContextualDrawing@Base 0
+ XConvertCase@Base 0
+ XConvertSelection@Base 0
+ XCopyArea@Base 0
+ XCopyColormapAndFree@Base 0
+ XCopyGC@Base 0
+ XCopyPlane@Base 0
+ XCreateBitmapFromData@Base 0
+ XCreateColormap@Base 0
+ XCreateFontCursor@Base 0
+ XCreateFontSet@Base 0
+ XCreateGC@Base 0
+ XCreateGlyphCursor@Base 0
+ XCreateIC@Base 0

+ XCreateImage@Base 0
+ XCreateOC@Base 0
+ XCreatePixmap@Base 0
+ XCreatePixmapCursor@Base
0
+ XCreatePixmapFromBitmapData@Base 0
+ XCreateRegion@Base 0
+ XCreateSimpleWindow@Base 0
+ XCreateWindow@Base 0
+ XDefaultColormap@Base 0
+ XDefaultColormapOfScreen@Base 0
+ XDefaultDepth@Base 0
+ XDefaultDepthOfScreen@Base 0
+ XDefaultGC@Base 0
+ XDefaultGCOfScreen@Base 0
+ XDefaultRootWindow@Base 0
+ XDefaultScreen@Base 0
+ XDefaultScreenOfDisplay@Base 0
+ XDefaultString@Base 0
+ XDefaultVisual@Base 0
+ XDefaultVisualOfScreen@Base 0
+ XDefineCursor@Base 0
+ XDeleteContext@Base 0
+ XDeleteModifiermapEntry@Base 0
+ XDeleteProperty@Base 0
+ XDestroyIC@Base 0
+ XDestroyImage@Base 0
+ XDestroyOC@Base 0
+ XDestroyRegion@Base 0
+ XDestroySubwindows@Base 0
+ XDestroyWindow@Base 0
+ XDirectionalDependentDrawing@Base 0
+ XDisableAccessControl@Base 0
+ XDisplayCells@Base 0
+ XDisplayHeight@Base 0
+ XDisplayHeightMM@Base 0
+ XDisplayKeycodes@Base 0
+ XDisplayMotionBufferSize@Base 0
+ XDisplayName@Base 0
+ XDisplayOfIM@Base 0
+ XDisplayOfOM@Base 0
+ XDisplayOfScreen@Base 0
+ XDisplayPlanes@Base
0
+ XDisplayString@Base 0
+ XDisplayWidth@Base 0
+ XDisplayWidthMM@Base 0
+ XDoesBackingStore@Base 0

+ XDoesSaveUnders@Base 0
+ XDrawArc@Base 0
+ XDrawArcs@Base 0
+ XDrawImageString16@Base 0
+ XDrawImageString@Base 0
+ XDrawLine@Base 0
+ XDrawLines@Base 0
+ XDrawPoint@Base 0
+ XDrawPoints@Base 0
+ XDrawRectangle@Base 0
+ XDrawRectangles@Base 0
+ XDrawSegments@Base 0
+ XDrawString16@Base 0
+ XDrawString@Base 0
+ XDrawText16@Base 0
+ XDrawText@Base 0
+ XEHeadOfExtensionList@Base 0
+ XESetBeforeFlush@Base 0
+ XESetCloseDisplay@Base 0
+ XESetCopyEventCookie@Base 2:1.2.99.901
+ XESetCopyGC@Base 0
+ XESetCreateFont@Base 0
+ XESetCreateGC@Base 0
+ XESetError@Base 0
+ XESetErrorString@Base 0
+ XESetEventToWire@Base 0
+ XESetFlushGC@Base 0
+ XESetFreeFont@Base 0
+ XESetFreeGC@Base 0
+ XESetPrintErrorValues@Base 0
+ XESetWireToError@Base 0
+ XESetWireToEvent@Base 0
+ XESetWireToEventCookie@Base 2:1.2.99.901
+ XEmptyRegion@Base 0
+ XEnableAccessControl@Base 0
+ XEqualRegion@Base 0
+ XEventMaskOfScreen@Base
0
+ XEventsQueued@Base 0
+ XExtendedMaxRequestSize@Base 0
+ XExtentsOfFontSet@Base 0
+ XFetchBuffer@Base 0
+ XFetchBytes@Base 0
+ XFetchName@Base 0
+ XFillArc@Base 0
+ XFillArcs@Base 0
+ XFillPolygon@Base 0
+ XFillRectangle@Base 0

+ XFillRectangles@Base 0
+ XFilterEvent@Base 0
+ XFindContext@Base 0
+ XFindOnExtensionList@Base 0
+ XFlush@Base 0
+ XFlushGC@Base 0
+ XFontsOfFontSet@Base 0
+ XForceScreenSaver@Base 0
+ XFree@Base 0
+ XFreeColormap@Base 0
+ XFreeColors@Base 0
+ XFreeCursor@Base 0
+ XFreeEventData@Base 2:1.2.99.901
+ XFreeExtensionList@Base 0
+ XFreeFont@Base 0
+ XFreeFontInfo@Base 0
+ XFreeFontNames@Base 0
+ XFreeFontPath@Base 0
+ XFreeFontSet@Base 0
+ XFreeGC@Base 0
+ XFreeModifiermap@Base 0
+ XFreePixmap@Base 0
+ XFreeStringList@Base 0
+ XGContextFromGC@Base 0
+ XGeometry@Base 0
+ XGetAtomName@Base 0
+ XGetAtomNames@Base 0
+ XGetClassHint@Base 0
+ XGetCommand@Base 0
+ XGetDefault@Base 0
+ XGetErrorDatabaseText@Base 0
+ XGetErrorText@Base 0
+ XGetEventData@Base
2:1.2.99.901
+ XGetFontPath@Base 0
+ XGetFontProperty@Base 0
+ XGetGCValues@Base 0
+ XGetGeometry@Base 0
+ XGetICValues@Base 0
+ XGetIMValues@Base 0
+ XGetIconName@Base 0
+ XGetIconSizes@Base 0
+ XGetImage@Base 0
+ XGetInputFocus@Base 0
+ XGetKeyboardControl@Base 0
+ XGetKeyboardMapping@Base 0
+ XGetModifierMapping@Base 0
+ XGetMotionEvents@Base 0

+ XGetNormalHints@Base 0
+ XGetOCValues@Base 0
+ XGetOMValues@Base 0
+ XGetPixel@Base 0
+ XGetPointerControl@Base 0
+ XGetPointerMapping@Base 0
+ XGetRGBColormaps@Base 0
+ XGetScreenSaver@Base 0
+ XGetSelectionOwner@Base 0
+ XGetSizeHints@Base 0
+ XGetStandardColormap@Base 0
+ XGetSubImage@Base 0
+ XGetTextProperty@Base 0
+ XGetTransientForHint@Base 0
+ XGetVisualInfo@Base 0
+ XGetWMClientMachine@Base 0
+ XGetWMColormapWindows@Base 0
+ XGetWMHints@Base 0
+ XGetWMIconName@Base 0
+ XGetWMName@Base 0
+ XGetWMNormalHints@Base 0
+ XGetWMProtocols@Base 0
+ XGetWMSizeHints@Base 0
+ XGetWindowAttributes@Base 0
+ XGetWindowProperty@Base 0
+ XGetZoomHints@Base
0
+ XGrabButton@Base 0
+ XGrabKey@Base 0
+ XGrabKeyboard@Base 0
+ XGrabPointer@Base 0
+ XGrabServer@Base 0
+ XHeightMMOfScreen@Base 0
+ XHeightOfScreen@Base 0
+ XIMOfIC@Base 0
+ XIconifyWindow@Base 0
+ XIfEvent@Base 0
+ XImageByteOrder@Base 0
+ XInitExtension@Base 0
+ XInitImage@Base 0
+ XInitThreads@Base 0
+ XInsertModifiermapEntry@Base 0
+ XInstallColormap@Base 0
+ XInternAtom@Base 0
+ XInternAtoms@Base 0
+ XInternalConnectionNumbers@Base 0
+ XIntersectRegion@Base 0
+ XKeycodeToKeysym@Base 0

+ XKeysymToKeycode@Base 0
+ XKeysymToString@Base 0
+ XKillClient@Base 0
+ XLastKnownRequestProcessed@Base 0
+ XListDepths@Base 0
+ XListExtensions@Base 0
+ XListFonts@Base 0
+ XListFontsWithInfo@Base 0
+ XListHosts@Base 0
+ XListInstalledColormaps@Base 0
+ XListPixmapFormats@Base 0
+ XListProperties@Base 0
+ XLoadFont@Base 0
+ XLoadQueryFont@Base 0
+ XLocaleOfFontSet@Base 0
+ XLocaleOfIM@Base 0
+ XLocaleOfOM@Base 0
+ XLockDisplay@Base 0
+ XLookupColor@Base 0
+ XLookupKeysym@Base 0
+ XLookupString@Base
0
+ XLowerWindow@Base 0
+ XMapRaised@Base 0
+ XMapSubwindows@Base 0
+ XMapWindow@Base 0
+ XMaskEvent@Base 0
+ XMatchVisualInfo@Base 0
+ XMaxCmapsOfScreen@Base 0
+ XMaxRequestSize@Base 0
+ XMinCmapsOfScreen@Base 0
+ XMoveResizeWindow@Base 0
+ XMoveWindow@Base 0
+ XNewModifiermap@Base 0
+ XNextEvent@Base 0
+ XNextRequest@Base 0
+ XNoOp@Base 0
+ XOMOfOC@Base 0
+ XOffsetRegion@Base 0
+ XOpenDisplay@Base 0
+ XOpenIM@Base 0
+ XOpenOM@Base 0
+ XParseColor@Base 0
+ XParseGeometry@Base 0
+ XPeekEvent@Base 0
+ XPeekIfEvent@Base 0
+ XPending@Base 0
+ XPlanesOfScreen@Base 0

+ XPointInRegion@Base 0
+ XPolygonRegion@Base 0
+ XProcessInternalConnection@Base 0
+ XProtocolRevision@Base 0
+ XProtocolVersion@Base 0
+ XPutBackEvent@Base 0
+ XPutImage@Base 0
+ XPutPixel@Base 0
+ XQLength@Base 0
+ XQueryBestCursor@Base 0
+ XQueryBestSize@Base 0
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+ XQueryKeymap@Base
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+ XReadBitmapFileData@Base 0
+ XRebindKeysym@Base 0
+ XRecolorCursor@Base 0
+ XReconfigureWMWindow@Base 0
+ XRectInRegion@Base 0
+ XRefreshKeyboardMapping@Base 0
+ XRegisterIMInstantiateCallback@Base 0
+ XRemoveConnectionWatch@Base 0
+ XRemoveFromSaveSet@Base 0
+ XRemoveHost@Base 0
+ XRemoveHosts@Base 0
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+ XResetScreenSaver@Base 0
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+ XResourceManagerString@Base 0
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+ XSetClipMask@Base 0
+ XSetClipOrigin@Base 0
+ XSetClipRectangles@Base 0
+ XSetCloseDownMode@Base 0
+ XSetCommand@Base 0
+ XSetDashes@Base 0
+ XSetErrorHandler@Base 0
+ XSetFillRule@Base 0
+ XSetFillStyle@Base 0
+ XSetFont@Base 0
+ XSetFontPath@Base 0
+ XSetForeground@Base 0
+ XSetFunction@Base 0
+ XSetGraphicsExposures@Base 0
+ XSetICFocus@Base 0
+ XSetICValues@Base 0
+ XSetIMValues@Base 0
+ XSetIOErrorExitHandler@Base 2:1.7.0
+ XSetIOErrorHandler@Base 0
+ XSetIconName@Base 0
+ XSetIconSizes@Base 0
+ XSetInputFocus@Base 0
+ XSetLineAttributes@Base 0
+ XSetLocaleModifiers@Base 0
+ XSetModifierMapping@Base 0
+ XSetNormalHints@Base 0
+ XSetOCValues@Base 0
+ XSetOMValues@Base 0
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+ XSetPointerMapping@Base 0
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+ (optional)_XimProtoWcLookupString@Base 0 1
+ (optional)_XimProtoWireToEvent@Base 0 1
+ (optional)_XimRead@Base 0 1
+ (optional)_XimRegProtoIntrCallback@Base 0 1
+ (optional)_XimRegisterDispatcher@Base 0 1
+ (optional)_XimRegisterFilter@Base 0 1
+ (optional)_XimRegisterIMInstantiateCallback@Base 0 1
+ (optional)_XimRegisterServerFilter@Base 0 1
+ (optional)_XimRegisterTriggerKeysCallback@Base 0 1
+ (optional)_XimReregisterFilter@Base 0 1
+ (optional)_XimResetIMInstantiateCallback@Base 0 1
+ (optional)_XimRespSyncReply@Base 0 1
+ (optional)_XimServerDestroy@Base 0 1
+ (optional)_XimSetCurrentICValues@Base 0 1
+ (optional)_XimSetCurrentIMValues@Base 0 1
+ (optional)_XimSetEventMaskCallback@Base 0 1
+ (optional)_XimSetHeader@Base 0 1
+ (optional)_XimSetICDefaults@Base 0 1
+ (optional)_XimSetICMode@Base 0 1
+ (optional)_XimSetICResourceList@Base 0 1
+ (optional)_XimSetICValueData@Base 0 1
+ (optional)_XimSetIMMode@Base 0 1
+ (optional)_XimSetIMResourceList@Base
0 1
+ (optional)_XimSetIMValueData@Base 0 1
+ (optional)_XimSetInnerICResourceList@Base 0 1
+ (optional)_XimSetInnerIMResourceList@Base 0 1
+ (optional)_XimSetLocalIMDefaults@Base 0 1
+ (optional)_XimShutdown@Base 0 1
+ (optional)_XimSync@Base 0 1
+ (optional)_XimSyncCallback@Base 0 1
+ (optional)_XimThaiCloseIM@Base 0 1

+ (optional)_XimThaiCreateIC@Base 0 1
+ (optional)_XimThaiFilter@Base 0 1
+ (optional)_XimThaiIMFree@Base 0 1
+ (optional)_XimThaiOpenIM@Base 0 1
+ (optional)_XimTransCallDispatcher@Base 0 1
+ (optional)_XimTransConf@Base 0 1
+ (optional)_XimTransFilterWaitEvent@Base 0 1
+ (optional)_XimTransFlush@Base 0 1
+ (optional)_XimTransInternalConnection@Base 0 1
+ (optional)_XimTransRead@Base 0 1
+ (optional)_XimTransRegisterDispatcher@Base 0 1
+ (optional)_XimTransWrite@Base 0 1
+ (optional)_XimTransportRec@Base 0 1
+ (optional)_XimTriggerNotify@Base 0 1
+ (optional)_XimUnRegisterIMInstantiateCallback@Base 0 1
+ (optional)_XimUnregisterFilter@Base 0
1
+ (optional)_XimUnregisterServerFilter@Base 0 1
+ (optional)_XimWrite@Base 0 1
+ (optional)_XimXConf@Base 0 1
+ (optional)_XimXTransBytesReadable@Base 0 1
+ (optional)_XimXTransClose@Base 0 1
+ (optional)_XimXTransCloseForCloning@Base 0 1
+ (optional)_XimXTransConnect@Base 0 1
+ (optional)_XimXTransDisconnect@Base 0 1
+ (optional)_XimXTransFreeConnInfo@Base 0 1
+ (optional)_XimXTransGetConnectionNumber@Base 0 1
+ (optional)_XimXTransGetHostname@Base 0 1
+ (optional)_XimXTransGetPeerAddr@Base 0 1
+ (optional)_XimXTransIsLocal@Base 0 1
+ (optional)_XimXTransOpenCOTSClient@Base 0 1
+ (optional)_XimXTransRead@Base 0 1
+ (optional)_XimXTransReadv@Base 0 1
+ (optional)_XimXTransSetOption@Base 0 1
+ (optional)_XimXTransSocketINET6Funcs@Base 0 1
+ (optional)_XimXTransSocketINETFuncs@Base 0 1
+ (optional)_XimXTransSocketLocalFuncs@Base 0 1
+ (optional)_XimXTransSocketTCPFuncs@Base 0 1
+ (optional)_XimXTransSocketUNIXFuncs@Base 0 1
+ (optional)_XimXTransWrite@Base 0 1
+ (optional)_XimXTransWritev@Base
0 1
+ (optional)_Ximctstombs@Base 0 1
+ (optional)_Ximctstoutf8@Base 0 1
+ (optional)_Ximctstowcs@Base 0 1
+ (optional)_XkbCopyFromReadBuffer@Base 0 1
+ (optional)_XkbFreeReadBuffer@Base 0 1
+ (optional)_XkbGetAtomNameFunc@Base 0 1

+ (optional)_XkbGetCharset@Base 0 1
+ (optional)_XkbGetConverters@Base 0 1
+ (optional)_XkbGetReadBufferCountedString@Base 0 1
+ (optional)_XkbGetReadBufferPtr@Base 0 1
+ (optional)_XkbInitReadBuffer@Base 0 1
+ (optional)_XkbInternAtomFunc@Base 0 1
+ (optional)_XkbNoteCoreMapChanges@Base 0 1
+ (optional)_XkbPeekAtReadBuffer@Base 0 1
+ (optional|arch-bits=64)_XkbReadBufferCopy32@Base 0 1
+ (optional)_XkbReadBufferCopyKeySyms@Base 0 1
+ (optional|arch-bits=64)_XkbReadCopyData32@Base 0 1
+ (optional)_XkbReadCopyKeySyms@Base 0 1
+ (optional)_XkbReadGetCompatMapReply@Base 0 1
+ (optional)_XkbReadGetGeometryReply@Base 0 1
+ (optional)_XkbReadGetIndicatorMapReply@Base 0 1
+ (optional)_XkbReadGetMapReply@Base 0 1
+ (optional)_XkbReadGetNamesReply@Base 0 1
+
(optional)_XkbReloadDpy@Base 0 1
+ (optional)_XkbSkipReadBufferData@Base 0 1
+ (optional|arch-bits=64)_XkbWriteCopyData32@Base 0 1
+ (optional)_XkbWriteCopyKeySyms@Base 0 1
+ (optional)_XkeyTable@Base 0 1
+ (optional)_XlcAddCT@Base 0 1
+ (optional)_XlcAddCharSet@Base 0 1
+ (optional)_XlcAddGB18030LocaleConverters@Base 0 1
+ (optional)_XlcAddLoader@Base 0 1
+ (optional)_XlcAddUtf8Converters@Base 0 1
+ (optional)_XlcAddUtf8LocaleConverters@Base 0 1
+ (optional)_XlcCloseConverter@Base 0 1
+ (optional)_XlcCompareISOLatin1@Base 0 1
+ (optional)_XlcCompileResourceList@Base 0 1
+ (optional)_XlcConvert@Base 0 1
+ (optional)_XlcCopyFromArg@Base 0 1
+ (optional)_XlcCopyToArg@Base 0 1
+ (optional)_XlcCountVaList@Base 0 1
+ (optional)_XlcCreateDefaultCharSet@Base 0 1
+ (optional)_XlcCreateLC@Base 0 1
+ (optional)_XlcCreateLocaleDataBase@Base 0 1
+ (optional)_XlcCurrentLC@Base 0 1
+ (optional)_XlcDbg_printValue@Base 0 1
+ (optional)_XlcDeInitLoader@Base 0 1
+ (optional)_XlcDefaultLoader@Base 0 1
+
(optional)_XlcDefaultMapModifiers@Base 0 1
+ (optional)_XlcDestroyLC@Base 0 1
+ (optional)_XlcDestroyLocaleDataBase@Base 0 1
+ (optional)_XlcFileName@Base 0 1

+ (optional)_XlcGenericLoader@Base 0 1
+ (optional)_XlcGenericMethods@Base 0 1
+ (optional)_XlcGetCSValues@Base 0 1
+ (optional)_XlcGetCharSet@Base 0 1
+ (optional)_XlcGetCharSetWithSide@Base 0 1
+ (optional)_XlcGetLocaleDataBase@Base 0 1
+ (optional)_XlcGetResource@Base 0 1
+ (optional)_XlcGetValues@Base 0 1
+ (optional)_XlcInitCTInfo@Base 0 1
+ (optional)_XlcInitLoader@Base 0 1
+ (optional)_XlcLocaleDirName@Base 0 1
+ (optional)_XlcLocaleLibDirName@Base 0 1
+ (optional)_XlcMapOSLocaleName@Base 0 1
+ (optional)_XlcNCompareISOLatin1@Base 0 1
+ (optional)_XlcOpenConverter@Base 0 1
+ (optional)_XlcParseCharSet@Base 0 1
+ (optional)_XlcParse_scopemaps@Base 0 1
+ (optional)_XlcPublicMethods@Base 0 1
+ (optional)_XlcRemoveLoader@Base 0 1
+ (optional)_XlcResetConverter@Base 0 1
+ (optional)_XlcResolveI18NPath@Base 0 1
+ (optional)_XlcResolveLocaleName@Base
0 1
+ (optional)_XlcSetConverter@Base 0 1
+ (optional)_XlcSetValues@Base 0 1
+ (optional)_XlcUtf8Loader@Base 0 1
+ (optional)_XlcVaToArgList@Base 0 1
+ (optional)_XlcValidModSyntax@Base 0 1
+ (optional)_Xlcmbstoutf8@Base 0 1
+ (optional)_Xlcmbstowcs@Base 0 1
+ (optional)_Xlcmbtowc@Base 0 1
+ (optional)_Xlcwcstombs@Base 0 1
+ (optional)_Xlcwctomb@Base 0 1
+ (optional)_XmbDefaultDrawImageString@Base 0 1
+ (optional)_XmbDefaultDrawString@Base 0 1
+ (optional)_XmbDefaultTextEscapement@Base 0 1
+ (optional)_XmbDefaultTextExtents@Base 0 1
+ (optional)_XmbDefaultTextPerCharExtents@Base 0 1
+ (optional)_XmbGenericDrawImageString@Base 0 1
+ (optional)_XmbGenericDrawString@Base 0 1
+ (optional)_XmbGenericTextEscapement@Base 0 1
+ (optional)_XmbGenericTextExtents@Base 0 1
+ (optional)_XmbGenericTextPerCharExtents@Base 0 1
+ (optional)_XmbTextListToTextProperty@Base 0 1
+ (optional)_XmbTextPropertyToTextList@Base 0 1
+ _Xmblen@Base 0
+ (optional)_Xmbstoutf8@Base 0 1
+ (optional)_Xmbstowcs@Base

0 1
+ _Xmbtowc@Base 0
+ (optional)_XomConvert@Base 0 1
+ (optional)_XomGenericDrawString@Base 0 1
+ (optional)_XomGenericOpenOM@Base 0 1
+ (optional)_XomGenericTextExtents@Base 0 1
+ (optional)_XomGetFontDataFromFontSet@Base 0 1
+ (optional)_XomInitConverter@Base 0 1
+ (optional)_XrmDefaultInitParseInfo@Base 0 1
+ (optional)_XrmInitParseInfo@Base 0 1
+ (optional)_XrmInternalStringToQuark@Base 0 1
+ (optional)_Xthread_self_fn@Base 0 1
+ (optional)_Xutf8DefaultDrawImageString@Base 0 1
+ (optional)_Xutf8DefaultDrawString@Base 0 1
+ (optional)_Xutf8DefaultTextEscapement@Base 0 1
+ (optional)_Xutf8DefaultTextExtents@Base 0 1
+ (optional)_Xutf8DefaultTextPerCharExtents@Base 0 1
+ (optional)_Xutf8GenericDrawImageString@Base 0 1
+ (optional)_Xutf8GenericDrawString@Base 0 1
+ (optional)_Xutf8GenericTextEscapement@Base 0 1
+ (optional)_Xutf8GenericTextExtents@Base 0 1
+ (optional)_Xutf8GenericTextPerCharExtents@Base 0 1
+ (optional)_Xutf8TextListToTextProperty@Base 0 1
+ (optional)_Xutf8TextPropertyToTextList@Base
0 1
+ (optional)_XwcDefaultDrawImageString@Base 0 1
+ (optional)_XwcDefaultDrawString@Base 0 1
+ (optional)_XwcDefaultTextEscapement@Base 0 1
+ (optional)_XwcDefaultTextExtents@Base 0 1
+ (optional)_XwcDefaultTextPerCharExtents@Base 0 1
+ (optional)_XwcFreeStringList@Base 0 1
+ (optional)_XwcGenericDrawImageString@Base 0 1
+ (optional)_XwcGenericDrawString@Base 0 1
+ (optional)_XwcGenericTextEscapement@Base 0 1
+ (optional)_XwcGenericTextExtents@Base 0 1
+ (optional)_XwcGenericTextPerCharExtents@Base 0 1
+ (optional)_XwcTextListToTextProperty@Base 0 1
+ (optional)_XwcTextPropertyToTextList@Base 0 1
+ (optional)_Xwcscmp@Base 0 1
+ (optional)_Xwcscpy@Base 0 1
+ (optional)_Xwcslen@Base 0 1
+ (optional)_Xwcsncmp@Base 0 1
+ (optional)_Xwcsncpy@Base 0 1
+ (optional)_Xwcstombs@Base 0 1
+ _Xwctomb@Base 0
+ _conv_lock@Base 2:1.7.0
+ (optional)_qfree@Base 0 1
+ (optional)read_EncodingInfo@Base 0 1

```
+ (optional)xlocaledir@Base 0 1
--- libx11-1.7.2.orig/debian/libx11-data.install
+++
 libx11-1.7.2/debian/libx11-data.install
@@ -0,0 +1,3 @@
+usr/share/X11/locale
+usr/share/X11/XErrorDB
+usr/share/man/man5
--- libx11-1.7.2.orig/debian/libx11-dev.install
+++ libx11-1.7.2/debian/libx11-dev.install
@@ -0,0 +1,4 @@
+usr/include/X11/*
+usr/lib/*/libX11.a
+usr/lib/*/libX11.so
+usr/lib/*/pkgconfig/x11.pc
--- libx11-1.7.2.orig/debian/libx11-doc.install
+++ libx11-1.7.2/debian/libx11-doc.install
@@ -0,0 +1,2 @@
+usr/share/man/man3/*
+usr/share/doc/libX11/* usr/share/doc/libx11-dev
--- libx11-1.7.2.orig/debian/libx11-xcb-dev.install
+++ libx11-1.7.2/debian/libx11-xcb-dev.install
@@ -0,0 +1,6 @@
+usr/include/X11/Xlib-xcb.h
+usr/share/man/man3/XGetXCBConnection.3
+usr/share/man/man3/XSetEventQueueOwner.3
+usr/lib/*/libX11-xcb.a
+usr/lib/*/libX11-xcb.so
+usr/lib/*/pkgconfig/x11-xcb.pc
--- libx11-1.7.2.orig/debian/libx11-xcb1.install
+++ libx11-1.7.2/debian/libx11-xcb1.install
@@ -0,0 +1 @@
+usr/lib/*/libX11-xcb.so.1*
--- libx11-1.7.2.orig/debian/patches/0001-CVE-2023-43785-out-of-bounds-memory-access-in-_XkbRe.patch
+++
 libx11-1.7.2/debian/patches/0001-CVE-2023-43785-out-of-bounds-memory-access-in-_XkbRe.patch
@@ -0,0 +1,58 @@
+From 6858d468d9ca55fb4c5fd70b223dbc78a3358a7f Mon Sep 17 00:00:00 2001
+From: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Sun, 17 Sep 2023 14:19:40 -0700
+Subject: [PATCH libX11 1/5] CVE-2023-43785: out-of-bounds memory access in
+ _XkbReadKeySyms()
+
+Make sure we allocate enough memory in the first place, and
+also handle error returns from _XkbReadBufferCopyKeySyms() when
+it detects out-of-bounds issues.
+
+Reported-by: Gregory James DUCK <gjduck@gmail.com>
```

```
+Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+---
+ src/xkb/XKBGetMap.c | 14 +++++++++-----
+ 1 file changed, 9 insertions(+), 5 deletions(-)
+
+diff --git a/src/xkb/XKBGetMap.c b/src/xkb/XKBGetMap.c
+index 2891d21e..31199e4a 100644
+--- a/src/xkb/XKBGetMap.c
++++ b/src/xkb/XKBGetMap.c
+@@ -182,7 +182,8 @@ _XkbReadKeySyms(XkbReadBufferPtr
 buf, XkbDescPtr xkb, xkbGetMapReply *rep)
+           if (offset + newMap->nSyms >= map->size_syms) {
+               register int sz;
+
+-              sz = map->size_syms + 128;
++              sz = offset + newMap->nSyms;
++              sz = ((sz + (unsigned) 128) / 128) * 128;
+               _XkbResizeArray(map->syms, map->size_syms, sz, KeySym);
+               if (map->syms == NULL) {
+                   map->size_syms = 0;
+@@ -191,8 +192,9 @@ _XkbReadKeySyms(XkbReadBufferPtr buf, XkbDescPtr xkb, xkbGetMapReply *rep)
+               map->size_syms = sz;
+           }
+           if (newMap->nSyms > 0) {
+-              _XkbReadBufferCopyKeySyms(buf, (KeySym *) &map->syms[offset],
+-                                        newMap->nSyms);
++              if (_XkbReadBufferCopyKeySyms(buf, (KeySym *) &map->syms[offset],
++                                            newMap->nSyms) == 0)
++                  return BadLength;
+
       offset += newMap->nSyms;
+           }
+           else {
+@@ -222,8 +224,10 @@ _XkbReadKeySyms(XkbReadBufferPtr buf, XkbDescPtr xkb, xkbGetMapReply *rep)
+           newSyms = XkbResizeKeySyms(xkb, i + rep->firstKeySym, tmp);
+           if (newSyms == NULL)
+               return BadAlloc;
+-          if (newMap->nSyms > 0)
+-              _XkbReadBufferCopyKeySyms(buf, newSyms, newMap->nSyms);
++          if (newMap->nSyms > 0) {
++              if (_XkbReadBufferCopyKeySyms(buf, newSyms, newMap->nSyms) == 0)
++                  return BadLength;
++          }
+           else
+               newSyms[0] = NoSymbol;
+           oldMap->kt_index[0] = newMap->ktIndex[0];
+--
+2.39.3
```

```
+
--- libx11-1.7.2.orig/debian/patches/0002-CVE-2023-43786-stack-exhaustion-from-infinite-recurs.patch
+++ libx11-1.7.2/debian/patches/0002-CVE-2023-43786-stack-exhaustion-from-infinite-recurs.patch
@@ -0,0 +1,37 @@
+From 204c3393c4c90a29ed6bef64e43849536e863a86 Mon Sep 17
 00:00:00 2001
+From: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Thu, 7 Sep 2023 15:54:30 -0700
+Subject: [PATCH libX11 2/5] CVE-2023-43786: stack exhaustion from infinite
+ recursion in PutSubImage()
+
+When splitting a single line of pixels into chunks to send to the
+X server, be sure to take into account the number of bits per pixel,
+so we don't just loop forever trying to send more pixels than fit in
+the given request size and not breaking them down into a small enough
+chunk to fix.
+
+Fixes: "almost complete rewrite" (Dec. 12, 1987) from X11R2
+Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+---
+ src/PutImage.c | 5 +++--
+ 1 file changed, 3 insertions(+), 2 deletions(-)
+
+diff --git a/src/PutImage.c b/src/PutImage.c
+index 857ee916..a6db7b42 100644
+--- a/src/PutImage.c
++++ b/src/PutImage.c
+@@ -914,8 +914,9 @@ PutSubImage (
+       req_width, req_height - SubImageHeight,
+       dest_bits_per_pixel, dest_scanline_pad);
+     } else {
+- int SubImageWidth
- = (((Available << 3) / dest_scanline_pad)
+-    * dest_scanline_pad) - left_pad;
++ int SubImageWidth = ((((Available << 3) / dest_scanline_pad)
++                       * dest_scanline_pad) - left_pad)
++                      / dest_bits_per_pixel;
+
+   PutSubImage(dpy, d, gc, image, req_xoffset, req_yoffset, x, y,
+       (unsigned int) SubImageWidth, 1,
+--
+2.39.3
+
--- libx11-1.7.2.orig/debian/patches/0003-XPutImage-clip-images-to-maximum-height-width-allowe.patch
+++ libx11-1.7.2/debian/patches/0003-XPutImage-clip-images-to-maximum-height-width-allowe.patch
@@ -0,0 +1,41 @@
+From 73a37d5f2fcadd6540159b432a70d80f442ddf4a Mon Sep 17 00:00:00 2001
+From: Alan Coopersmith <alan.coopersmith@oracle.com>
```

```
+Date: Thu, 7 Sep 2023 15:55:04 -0700
+Subject: [PATCH libX11 3/5] XPutImage: clip images to maximum height & width
+ allowed by protocol
+
+The PutImage request specifies height & width of the image as CARD16
+(unsigned 16-bit integer), same as the maximum dimensions
 of an X11
+Drawable, which the image is being copied to.
+
+Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+---
+ src/PutImage.c | 5 +++++
+ 1 file changed, 5 insertions(+)
+
+diff --git a/src/PutImage.c b/src/PutImage.c
+index a6db7b42..ba411e36 100644
+--- a/src/PutImage.c
++++ b/src/PutImage.c
+@@ -30,6 +30,7 @@ in this Software without prior written authorization from The Open Group.
+ #include "Xlibint.h"
+ #include "Xutil.h"
+ #include <stdio.h>
++#include <limits.h>
+ #include "Cr.h"
+ #include "ImUtil.h"
+ #include "reallocarray.h"
+@@ -962,6 +963,10 @@ XPutImage (
+  height = image->height - req_yoffset;
+ 
+     if ((width <= 0) || (height <= 0))
+  return 0;
++    if (width > USHRT_MAX)
++        width = USHRT_MAX;
++    if (height > USHRT_MAX)
++        height = USHRT_MAX;
+ 
+     if ((image->bits_per_pixel == 1) || (image->format != ZPixmap)) {
+  dest_bits_per_pixel = 1;
+--
+2.39.3
+
--- libx11-1.7.2.orig/debian/patches/0004-XCreatePixmap-trigger-BadValue-error-for-out-of-rang.patch
+++
 libx11-1.7.2/debian/patches/0004-XCreatePixmap-trigger-BadValue-error-for-out-of-rang.patch
@@ -0,0 +1,47 @@
+From b4031fc023816aca07fbd592ed97010b9b48784b Mon Sep 17 00:00:00 2001
+From: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Thu, 7 Sep 2023 16:12:27 -0700
+Subject: [PATCH libX11 4/5] XCreatePixmap: trigger BadValue error for
```

```
+ out-of-range dimensions
+
+The CreatePixmap request specifies height & width of the image as CARD16
+(unsigned 16-bit integer), so if either is larger than that, set it to 0
+so the X server returns a BadValue error as the protocol requires.
+
+Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+---
+ src/CrPixmap.c | 11 ++++++++++
+ 1 file changed, 11 insertions(+)
+
+diff --git a/src/CrPixmap.c b/src/CrPixmap.c
+index cdf31207..3cb2ca6d 100644
+--- a/src/CrPixmap.c
++++ b/src/CrPixmap.c
+@@ -28,6 +28,7 @@ in this Software without prior written authorization from The Open Group.
+ #include <config.h>
+
 #endif
+ #include "Xlibint.h"
++#include <limits.h>
+
+ #ifdef USE_DYNAMIC_XCURSOR
+ void
+@@ -47,6 +48,16 @@ Pixmap XCreatePixmap (
+     Pixmap pid;
+     register xCreatePixmapReq *req;
+
++    /*
++     * Force a BadValue X Error if the requested dimensions are larger
++     * than the X11 protocol has room for, since that's how callers expect
++     * to get notified of errors.
++     */
++    if (width > USHRT_MAX)
++        width = 0;
++    if (height > USHRT_MAX)
++        height = 0;
++
+     LockDisplay(dpy);
+     GetReq(CreatePixmap, req);
+     req->drawable = d;
+--
+2.39.3
+
--- libx11-1.7.2.orig/debian/patches/0005-CVE-2023-43787-Integer-overflow-in-XCreateImage-lead.patch
+++ libx11-1.7.2/debian/patches/0005-CVE-2023-43787-Integer-overflow-in-XCreateImage-lead.patch
@@ -0,0 +1,59 @@
+From 7916869d16bdd115ac5be30a67c3749907aea6a0 Mon Sep 17 00:00:00 2001
```

```
+From: Yair Mizrahi <yairm@jfrog.com>
+Date: Thu, 7 Sep 2023 16:15:32 -0700
+Subject: [PATCH libX11 5/5] CVE-2023-43787:
 Integer overflow in XCreateImage()
+ leading to a heap overflow
+
+When the format is `Pixmap` it calculates the size of the image data as:
+    ROUNDUP((bits_per_pixel * width), image->bitmap_pad);
+There is no validation on the `width` of the image, and so this
+calculation exceeds the capacity of a 4-byte integer, causing an overflow.
+
+Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
+---
+ src/ImUtil.c | 20 ++++++++++++++++-----
+ 1 file changed, 15 insertions(+), 5 deletions(-)
+
+diff --git a/src/ImUtil.c b/src/ImUtil.c
+index 36f08a03..fbfad33e 100644
+--- a/src/ImUtil.c
++++ b/src/ImUtil.c
+@@ -30,6 +30,7 @@ in this Software without prior written authorization from The Open Group.
+ #include <X11/Xlibint.h>
+ #include <X11/Xutil.h>
+ #include <stdio.h>
++#include <limits.h>
+ #include "ImUtil.h"
+
+ static int _XDestroyImage(XImage *);
+@@ -361,13 +362,22 @@ XImage *XCreateImage (
+  /*
+   * compute per line accelerator.
+   */
+- {
+- if (format
+  == ZPixmap)
++ if (format == ZPixmap) {
++     if ((INT_MAX / bits_per_pixel) < width) {
++  Xfree(image);
++  return NULL;
++     }
++
+      min_bytes_per_line =
+-        ROUNDUP((bits_per_pixel * width), image->bitmap_pad);
+- else
++  ROUNDUP((bits_per_pixel * width), image->bitmap_pad);
++ } else {
++     if ((INT_MAX - offset) < width) {
++  Xfree(image);
```

```
++  return NULL;
++     }
++
+      min_bytes_per_line =
+-         ROUNDUP((width + offset), image->bitmap_pad);
++  ROUNDUP((width + offset), image->bitmap_pad);
+  }
+  if (image_bytes_per_line == 0) {
+      image->bytes_per_line = min_bytes_per_line;
+--
+2.39.3
+
--- libx11-1.7.2.orig/debian/patches/003_recognize_glibc_2.3.2_locale_names.diff
+++ libx11-1.7.2/debian/patches/003_recognize_glibc_2.3.2_locale_names.diff
@@ -0,0 +1,546 @@
+$Id: 011a_recognize_glibc_2.3.2_locale_names.diff 1064 2006-01-11 12:26:45Z ender $
+
+Major housecleaning of X11's locale support.
+
+* Add all locales supported by version 2.3.2 of the GNU
 C Library except
+  zh_CN.GB18030, sq_AL.ISO-8859-1, and tg_TJ.KOI8-T.  X has no support for
+  the GB18030 and KOI8-T character sets, and glibc appears to disagree with
+  most of the world about which character set Albanians use (see, for
+  example, iso_8859-2(7)).  This baka gaijin has learned his lesson about
+  trying to report l10n bugs in glibc, so I'll let someone else do the
+  jousting.  :-P
+
+* Synchronize compose.dir with locale.dir wherever possible (i.e., wherever
+  compose tables exist) so that as many supported locales as possible get a
+  Compose map.  Comment out references to compose tables that don't
+  actually exist.
+
+* Disable support for iu_CA.NUNACOM-8.  X11 doesn't have any support for
+  the NUNACOM-8 character set.  (iu_CA.UTF-8 is still supported.)
+
+* Disable support for locales that are neither supported by the GNU C
+  Library, nor use standard ISO 639 language or 3166 territory codes.  This
+  includes Esperanto (eo_EO), and what I presume is Pennsylvania
+
  "Dutch" (pd_DE, pd_US).
+
+* Turn off intrusion of Nynorsk into Nyanja's ISO 639 space.  (Nynorsk is
+  nn, not ny.)
+
+* Remove bogus "ee" locales for Estonian (et).
+
+* Remove ISO 8859-15 support for languages that don't use that character
```

+ set according to glibc.
+
+* Remove @euro modifier support from locales that don't use that currency
+ (i.e., countries not in the Euro zone).
+
+* Ensure we support the @euro modifier for all locales that use it
+ (according to glibc), even if the codeset is explicitly specified. See
+ Debian #208137.
+
+* Alias "fi" and "fi_FI" to "fi_FI.ISO8559-1", not "fi_FI.ISO8859-15", for
+ compatibility with the GNU C Library. See Debian #266834.
+
+* Rewrite some comments to be in grammatical English.
+
+This patch by Branden Robinson.
+Major "forward port" by Nathanael Nerode.
+
+Partially submitted upstream. This is so large I don't expect it to all go in at once,
+but any bit would help. --Nathanael
+
+---
+ nls/compose.dir.pre
  | 58 ++----------
+ nls/locale.alias.pre | 24 ++++++++++++++++++++----
+ nls/locale.dir.pre | 55 +++-------
+ 3 files changed, 114 insertions(+), 23 deletions(-)
+
+--- a/nls/compose.dir.pre
++++ b/nls/compose.dir.pre
+@@ -4,8 +4,13 @@ XCOMM The first word is the compose tabl
+ XCOMM and the second word is the full locale name.
+ XCOMM
+ XCOMM
++XCOMM Note that no Compose tables exist for ISO 8859-11, Microsoft code
++XCOMM pages, Fujitsu's S90 or U90 character sets, or TIS620 yet.
++XCOMM
+ iso8859-1/Compose: C
++iso8859-1/Compose: aa_DJ.ISO8859-1
+ iso8859-1/Compose: af_ZA.ISO8859-1
++iso8859-15/Compose: an_ES.ISO8859-15
+ iso8859-6/Compose: ar_AA.ISO8859-6
+ iso8859-6/Compose: ar_AE.ISO8859-6
+ iso8859-6/Compose: ar_BH.ISO8859-6
+@@ -70,12 +75,15 @@ iso8859-15/Compose: en_BE.ISO8859-15
+ iso8859-1/Compose: en_BW.ISO8859-1
+ iso8859-1/Compose: en_BZ.ISO8859-1
+ iso8859-1/Compose: en_CA.ISO8859-1
++iso8859-1/Compose: en_DK.ISO8859-1

```
++iso8859-15/Compose:  en_DK.ISO8859-15
+
 iso8859-1/Compose:  en_EN.ISO8859-1
+ iso8859-1/Compose:  en_GB.ISO8859-1
+ iso8859-15/Compose:  en_GB.ISO8859-15
+ iso8859-1/Compose:  en_HK.ISO8859-1
+ iso8859-1/Compose:  en_IE.ISO8859-1
+ iso8859-15/Compose:  en_IE.ISO8859-15
++iso8859-1/Compose:  en_IN.ISO8859-1
+ iso8859-15/Compose:  en_IN.ISO8859-15
+ iso8859-1/Compose:  en_JM.ISO8859-1
+ iso8859-1/Compose:  en_NZ.ISO8859-1
+@@ -124,6 +132,8 @@ iso8859-13/Compose:  et_EE.ISO8859-13
+ iso8859-15/Compose:  et_EE.ISO8859-15
+ iso8859-1/Compose:  eu_ES.ISO8859-1
+ iso8859-15/Compose:  eu_ES.ISO8859-15
++iso8859-1/Compose:  eu_FR.ISO8859-1
++iso8859-15/Compose:  eu_FR.ISO8859-15
+ isiri-3342/Compose:  fa_IR.ISIRI-3342
+ iso8859-1/Compose:  fi_FI.ISO8859-1
+ iso8859-15/Compose:  fi_FI.ISO8859-15
+@@ -157,11 +167,9 @@ iso8859-2/Compose:  hr_HR.ISO8859-2
+ iso8859-2/Compose:  hu_HU.ISO8859-2
+ armscii-8/Compose:  hy_AM.ARMSCII-8
+ iso8859-1/Compose:  id_ID.ISO8859-1
+-iso8859-15/Compose:  id_ID.ISO8859-15
+
 iso8859-1/Compose:  is_IS.ISO8859-1
+ iso8859-15/Compose:  is_IS.ISO8859-15
+ iso8859-1/Compose:  it_CH.ISO8859-1
+-iso8859-15/Compose:  it_CH.ISO8859-15
+ iso8859-1/Compose:  it_IT.ISO8859-1
+ iso8859-15/Compose:  it_IT.ISO8859-15
+ ja/Compose:   ja_JP.eucJP
+@@ -170,10 +178,10 @@ ja.JIS/Compose:   ja_JP.JIS7
+ georgian-academy/Compose: ka_GE.GEORGIAN-ACADEMY
+ georgian-ps/Compose:  ka_GE.GEORGIAN-PS
+ iso8859-1/Compose:  kl_GL.ISO8859-1
+-iso8859-15/Compose:  kl_GL.ISO8859-15
+ iso8859-1/Compose:  kw_GB.ISO8859-1
+ iso8859-14/Compose:  kw_GB.ISO8859-14
+ iso8859-15/Compose:  kw_GB.ISO8859-15
++iso8859-10/Compose:  lg_UG.ISO8859-10
+ ko/Compose:   ko_KR.eucKR
+ ibm-cp1133/Compose:  lo_LA.IBM-CP1133
+ mulelao-1/Compose:  lo_LA.MULELAO-1
+@@ -202,15 +210,18 @@ iso8859-1/Compose:  ny_NO.ISO8859-1
+ iso8859-15/Compose:  ny_NO.ISO8859-15
```

+ iso8859-1/Compose: oc_FR.ISO8859-1
+ iso8859-15/Compose: oc_FR.ISO8859-15
+-iso8859-1/Compose: pd_DE.ISO8859-1
+-iso8859-15/Compose: pd_DE.ISO8859-15
+-iso8859-1/Compose: pd_US.ISO8859-1
+-iso8859-15/Compose: pd_US.ISO8859-15
++iso8859-1/Compose: om_KE.ISO8859-1
++XCOMM
 Presumably, "pd" is "Pennsylvania 'Dutch'", a U.S. dialect of German.
++XCOMM This is not an ISO language code defined for it, and the GNU C Library
++XCOMM doesn't support it.
++XCOMM iso8859-1/Compose: pd_DE.ISO8859-1
++XCOMM iso8859-15/Compose: pd_DE.ISO8859-15
++XCOMM iso8859-1/Compose: pd_US.ISO8859-1
++XCOMM iso8859-15/Compose: pd_US.ISO8859-15
+ iso8859-1/Compose: ph_PH.ISO8859-1
+ iso8859-2/Compose: pl_PL.ISO8859-2
+ iso8859-1/Compose: pp_AN.ISO8859-1
+ iso8859-1/Compose: pt_BR.ISO8859-1
+-iso8859-15/Compose: pt_BR.ISO8859-15
+ iso8859-1/Compose: pt_PT.ISO8859-1
+ iso8859-15/Compose: pt_PT.ISO8859-15
+ iso8859-2/Compose: ro_RO.ISO8859-2
+@@ -223,6 +234,9 @@ iso8859-1/Compose: rw_RW.ISO8859-1
+ iso8859-2/Compose: sh_YU.ISO8859-2
+ iso8859-2/Compose: sk_SK.ISO8859-2
+ iso8859-2/Compose: sl_SI.ISO8859-2
++iso8859-1/Compose: so_DJ.ISO8859-1
++iso8859-1/Compose: so_KE.ISO8859-1
++iso8859-1/Compose: so_SO.ISO8859-1
+
 iso8859-2/Compose: sq_AL.ISO8859-2
+ iso8859-2/Compose: sr_YU.ISO8859-2
+ microsoft-cp1251/Compose: sr_YU.CP1251
+@@ -259,12 +273,19 @@ zh_CN/Compose: zh_CN.gb2312
+ zh_CN.gbk/Compose: zh_CN.gbk
+ zh_CN.gb18030/Compose: zh_CN.gb18030
+ zh_HK.big5/Compose: zh_HK.big5
++zh_HK.big5hkscs/Compose: zh_HK.big5-hkscs
++zh_HK.big5hkscs/Compose: zh_HK.Big5-HKSCS
+ zh_HK.big5hkscs/Compose: zh_HK.big5hkscs
++zh_HK.big5hkscs/Compose: zh_HK.Big5HKSCS
++zh_CN/Compose: zh_SG.gb2312
++zh_CN.gbk/Compose: zh_SG.gbk
+ zh_TW.big5/Compose: zh_TW.big5
+ zh_TW/Compose: zh_TW.eucTW
+ iso8859-1/Compose: zu_ZA.ISO8859-1
+ XCOMM

```
+ XCOMM
++en_US.UTF-8/Compose:  aa_ER.UTF-8
++en_US.UTF-8/Compose:  aa_ET.UTF-8
+ en_US.UTF-8/Compose:  C.UTF-8
+ en_US.UTF-8/Compose:  af_ZA.UTF-8
+ am_ET.UTF-8/Compose:  am_ET.UTF-8
+@@ -297,6 +318,7 @@ en_US.UTF-8/Compose:  bn_IN.UTF-8
+ en_US.UTF-8/Compose:  bo_IN.UTF-8
+
 en_US.UTF-8/Compose:  br_FR.UTF-8
+ en_US.UTF-8/Compose:  bs_BA.UTF-8
++en_US.UTF-8/Compose:  byn_ER.UTF-8
+ en_US.UTF-8/Compose:  ca_AD.UTF-8
+ en_US.UTF-8/Compose:  ca_ES.UTF-8
+ en_US.UTF-8/Compose:  ca_FR.UTF-8
+@@ -358,6 +380,7 @@ en_US.UTF-8/Compose:  es_UY.UTF-8
+ en_US.UTF-8/Compose:  es_VE.UTF-8
+ en_US.UTF-8/Compose:  et_EE.UTF-8
+ en_US.UTF-8/Compose:  eu_ES.UTF-8
++en_US.UTF-8/Compose:  eu_FR.UTF-8
+ en_US.UTF-8/Compose:  fa_IR.UTF-8
+ fi_FI.UTF-8/Compose:  fi_FI.UTF-8
+ en_US.UTF-8/Compose:  fo_FO.UTF-8
+@@ -368,6 +391,8 @@ en_US.UTF-8/Compose:  fr_FR.UTF-8
+ en_US.UTF-8/Compose:  fr_LU.UTF-8
+ en_US.UTF-8/Compose:  ga_IE.UTF-8
+ en_US.UTF-8/Compose:  gd_GB.UTF-8
++en_US.UTF-8/Compose:       gez_ER.UTF-8
++en_US.UTF-8/Compose:       gez_ET.UTF-8
+ en_US.UTF-8/Compose:  gl_ES.UTF-8
+ en_US.UTF-8/Compose:  gu_IN.UTF-8
+ en_US.UTF-8/Compose:  gv_GB.UTF-8
+@@ -382,6 +407,7 @@ en_US.UTF-8/Compose:  is_IS.UTF-8
+ en_US.UTF-8/Compose:  it_CH.UTF-8
+
 en_US.UTF-8/Compose:  it_IT.UTF-8
+ en_US.UTF-8/Compose:  iu_CA.UTF-8
++en_US.UTF-8/Compose:  iw_IL.UTF-8
+ ja_JP.UTF-8/Compose:  ja_JP.UTF-8
+ en_US.UTF-8/Compose:  ka_GE.UTF-8
+ en_US.UTF-8/Compose:  kk_KZ.UTF-8
+@@ -401,6 +427,7 @@ en_US.UTF-8/Compose:  mai_IN.UTF-8
+ en_US.UTF-8/Compose:  mi_NZ.UTF-8
+ en_US.UTF-8/Compose:  mk_MK.UTF-8
+ en_US.UTF-8/Compose:  ml_IN.UTF-8
++en_US.UTF-8/Compose:  mn_MN.UTF-8
+ en_US.UTF-8/Compose:  mr_IN.UTF-8
+ en_US.UTF-8/Compose:  ms_MY.UTF-8
```

```
+ en_US.UTF-8/Compose:  mt_MT.UTF-8
+@@ -412,13 +439,19 @@ en_US.UTF-8/Compose:  no_NO.UTF-8
+ en_US.UTF-8/Compose:  nb_NO.UTF-8
+ en_US.UTF-8/Compose:  nr_ZA.UTF-8
+ en_US.UTF-8/Compose:  nso_ZA.UTF-8
+-en_US.UTF-8/Compose:  ny_NO.UTF-8
++XCOMM ny is the language code for Nyanja (spoken in Malawi), not Nynorsk.
++XCOMM See <URL: http://www.ethnologue.com/show_iso639.asp?code=nya >.
++XCOMM en_US.UTF-8/Compose: ny_NO.UTF-8
+ en_US.UTF-8/Compose:  oc_FR.UTF-8
+ en_US.UTF-8/Compose:  or_IN.UTF-8
++en_US.UTF-8/Compose:
     om_ET.UTF-8
+ en_US.UTF-8/Compose:  pa_IN.UTF-8
+ en_US.UTF-8/Compose:  pa_PK.UTF-8
+-en_US.UTF-8/Compose:  pd_DE.UTF-8
+-en_US.UTF-8/Compose:  pd_US.UTF-8
++XCOMM Presumably, "pd" is "Pennsylvania 'Dutch'", a U.S. dialect of German.
++XCOMM This is not an ISO language code defined for it, and the GNU C Library
++XCOMM doesn't support it.
++XCOMM en_US.UTF-8/Compose: pd_DE.UTF-8
++XCOMM en_US.UTF-8/Compose: pd_US.UTF-8
+ en_US.UTF-8/Compose:  ph_PH.UTF-8
+ en_US.UTF-8/Compose:  pl_PL.UTF-8
+ en_US.UTF-8/Compose:  pp_AN.UTF-8
+@@ -434,9 +467,11 @@ en_US.UTF-8/Compose:  sd_IN.UTF-8@devana
+ en_US.UTF-8/Compose:  se_NO.UTF-8
+ en_US.UTF-8/Compose:  sh_BA.UTF-8
+ en_US.UTF-8/Compose:  sh_YU.UTF-8
++en_US.UTF-8/Compose:  sid_ET.UTF-8
+ en_US.UTF-8/Compose:  si_LK.UTF-8
+ en_US.UTF-8/Compose:  sk_SK.UTF-8
+ en_US.UTF-8/Compose:  sl_SI.UTF-8
++en_US.UTF-8/Compose:  so_ET.UTF-8
+ en_US.UTF-8/Compose:  sq_AL.UTF-8
+ en_US.UTF-8/Compose:  sr_ME.UTF-8
+ en_US.UTF-8/Compose:  sr_RS.UTF-8
+@@
 -451,6 +486,7 @@ en_US.UTF-8/Compose:  tg_TJ.UTF-8
+ th_TH.UTF-8/Compose:  th_TH.UTF-8
+ en_US.UTF-8/Compose:  ti_ER.UTF-8
+ en_US.UTF-8/Compose:  ti_ET.UTF-8
++en_US.UTF-8/Compose:  tig_ER.UTF-8
+ en_US.UTF-8/Compose:  tl_PH.UTF-8
+ en_US.UTF-8/Compose:  tn_ZA.UTF-8
+ en_US.UTF-8/Compose:  tr_TR.UTF-8
+--- a/nls/locale.alias.pre
++++ b/nls/locale.alias.pre
```

+@@ -317,6 +317,12 @@ en_CA.iso88591: en_CA.ISO8859-1
+ en_CA.ISO-8859-1: en_CA.ISO8859-1
+ en_CA.ISO_8859-1: en_CA.ISO8859-1
+ en_CA.utf8: en_CA.UTF-8
++en_DK: en_DK.ISO8859-1
++en_DK.iso88591: en_DK.ISO8859-1
++en_DK.ISO-8859-1: en_DK.ISO8859-1
++en_DK.iso885915: en_DK.ISO8859-15
++en_DK.ISO-8859-15: en_DK.ISO8859-15
++en_DK.utf8: en_DK.UTF-8
+ en_DL.utf8: en_DL.UTF-8
+ en_GB: en_GB.ISO8859-1
+ en_GB.88591: en_GB.ISO8859-1
+@@ -370,6 +376,16 @@ en_US.8859-15: en_US.ISO8859-15
+ en_US.ISO8859-15@euro: en_US.ISO8859-15
+ en_US.utf8: en_US.UTF-8
+ EN_US.UTF-8: en_US.UTF-8
++en_US.88591.en: en_US.ISO8859-1
++en_US.iso88591: en_US.ISO8859-1
++en_US.ISO-8859-1: en_US.ISO8859-1
++en_US.ISO_8859-1: en_US.ISO8859-1
++en_US.iso885915: en_US.ISO8859-15
++en_US.ISO-8859-15: en_US.ISO8859-15
++en_US.8859-15: en_US.ISO8859-15
++en_US.ISO8859-15@euro: en_US.ISO8859-15
++en_US.utf8: en_US.UTF-8
++EN_US.UTF-8: en_US.UTF-8
+
+ en_ZA: en_ZA.ISO8859-1
+ en_ZA.88591: en_ZA.ISO8859-1
+ en_ZA.88591.en: en_ZA.ISO8859-1
+@@ -927,7 +943,6 @@ pt_BR.88591.en: pt_BR.ISO8859-1
+ pt_BR.iso88591: pt_BR.ISO8859-1
+ pt_BR.ISO-8859-1: pt_BR.ISO8859-1
+ pt_BR.ISO_8859-1: pt_BR.ISO8859-1
+-pt_BR.iso885915: pt_BR.ISO8859-15
+ pt_BR.utf8: pt_BR.UTF-8
+ pt_PT: pt_PT.ISO8859-1
+ pt_PT.88591: pt_PT.ISO8859-1
+@@ -984,6 +999,7 @@ se_NO: se_NO.UTF-8
+ se_NO.utf8: se_NO.UTF-8
+ si: si_LK.UTF-8
+ si_LK: si_LK.UTF-8
++sid_ET: sid_ET.UTF-8
+ sk: sk_SK.ISO8859-2
+ sk_SK: sk_SK.ISO8859-2
+

```
 sk_SK.iso88592:     sk_SK.ISO8859-2
+@@ -1185,7 +1201,7 @@ XCOMM The following locale names are use
+ american.iso88591:    en_US.ISO8859-1
+ arabic.iso88596:    ar_AA.ISO8859-6
+ bokmal:      nb_NO.ISO8859-1
+-bokml:      nb_NO.ISO8859-1
++bokmål:      nb_NO.ISO8859-1
+ bulgarian:     bg_BG.CP1251
+ c-french.iso88591:    fr_CA.ISO8859-1
+ catalan:     ca_ES.ISO8859-1
+@@ -1200,11 +1216,11 @@ deutsch:     de_DE.ISO8859-1
+ dutch:      nl_NL.ISO8859-1
+ dutch.iso88591:     nl_BE.ISO8859-1
+ eesti:      et_EE.ISO8859-1
+-english.iso88591:    en_EN.ISO8859-1
++english.iso88591:    en_US.ISO8859-1
+ estonian:     et_EE.ISO8859-1
+ finnish:     fi_FI.ISO8859-1
+ finnish.iso88591:    fi_FI.ISO8859-1
+-franais:     fr_FR.ISO8859-1
++franis:     fr_FR.ISO8859-1
+ french:      fr_FR.ISO8859-1
+ french.iso88591:    fr_CH.ISO8859-1
+ galego:      gl_ES.ISO8859-1
+--- a/nls/locale.dir.pre
++++ b/nls/locale.dir.pre
+@@ -6,8 +6,11 @@ XCOMM
+ XCOMM
+
+ C/XLC_LOCALE:    C
++iso8859-1/XLC_LOCALE:   aa_DJ.ISO8859-1
+
+ iso8859-1/XLC_LOCALE:   af_ZA.ISO8859-1
++iso8859-15/XLC_LOCALE:   an_ES.ISO8859-15
+ iso8859-6/XLC_LOCALE:   ar_AA.ISO8859-6
++iso8859-6/XLC_LOCALE:   ar_AE.ISO8859-6
+ iso8859-6/XLC_LOCALE:   ar_BH.ISO8859-6
+ iso8859-6/XLC_LOCALE:   ar_DZ.ISO8859-6
+ iso8859-6/XLC_LOCALE:   ar_EG.ISO8859-6
+@@ -36,6 +39,7 @@ iso8859-2/XLC_LOCALE:   bs_BA.ISO8859-2
+ iso8859-1/XLC_LOCALE:   br_FR.ISO8859-1
+ iso8859-14/XLC_LOCALE:   br_FR.ISO8859-14
+ iso8859-15/XLC_LOCALE:   br_FR.ISO8859-15
++iso8859-2/XLC_LOCALE:   bs_BA.ISO8859-2
+ iso8859-1/XLC_LOCALE:   ca_AD.ISO8859-1
+ iso8859-15/XLC_LOCALE:   ca_AD.ISO8859-15
+ iso8859-1/XLC_LOCALE:   ca_ES.ISO8859-1
+@@ -71,12 +75,15 @@ iso8859-15/XLC_LOCALE:   en_BE.ISO8859-1
```

+ iso8859-1/XLC_LOCALE: en_BZ.ISO8859-1
+ iso8859-1/XLC_LOCALE: en_BW.ISO8859-1
+ iso8859-1/XLC_LOCALE: en_CA.ISO8859-1
++iso8859-1/XLC_LOCALE: en_DK.ISO8859-1
++iso8859-15/XLC_LOCALE: en_DK.ISO8859-15
+ iso8859-1/XLC_LOCALE: en_EN.ISO8859-1
+
 iso8859-1/XLC_LOCALE: en_GB.ISO8859-1
+ iso8859-15/XLC_LOCALE: en_GB.ISO8859-15
+ iso8859-1/XLC_LOCALE: en_HK.ISO8859-1
+ iso8859-1/XLC_LOCALE: en_IE.ISO8859-1
+ iso8859-15/XLC_LOCALE: en_IE.ISO8859-15
++iso8859-1/XLC_LOCALE: en_IN.ISO8859-1
+ iso8859-15/XLC_LOCALE: en_IN.ISO8859-15
+ iso8859-1/XLC_LOCALE: en_JM.ISO8859-1
+ iso8859-1/XLC_LOCALE: en_NZ.ISO8859-1
+@@ -90,7 +97,8 @@ iso8859-15/XLC_LOCALE: en_US.ISO8859-1
+ iso8859-1/XLC_LOCALE: en_ZA.ISO8859-1
+ iso8859-15/XLC_LOCALE: en_ZA.ISO8859-15
+ iso8859-1/XLC_LOCALE: en_ZW.ISO8859-1
+-iso8859-3/XLC_LOCALE: eo_EO.ISO8859-3
++XCOMM The EO territory doesn't exist in ISO 3166.
++XCOMM iso8859-3/XLC_LOCALE: eo_EO.ISO8859-3
+ iso8859-3/XLC_LOCALE: eo_XX.ISO8859-3
+ iso8859-1/XLC_LOCALE: es_AR.ISO8859-1
+ iso8859-1/XLC_LOCALE: es_BO.ISO8859-1
+@@ -125,6 +133,8 @@ iso8859-13/XLC_LOCALE: et_EE.ISO8859-
+ iso8859-15/XLC_LOCALE: et_EE.ISO8859-15
+ iso8859-1/XLC_LOCALE: eu_ES.ISO8859-1
+ iso8859-15/XLC_LOCALE: eu_ES.ISO8859-15
++iso8859-1/XLC_LOCALE: eu_FR.ISO8859-1
++iso8859-15/XLC_LOCALE: eu_FR.ISO8859-15
+
 isiri-3342/XLC_LOCALE: fa_IR.ISIRI-3342
+ iso8859-1/XLC_LOCALE: fi_FI.ISO8859-1
+ iso8859-15/XLC_LOCALE: fi_FI.ISO8859-15
+@@ -176,6 +186,7 @@ ko/XLC_LOCALE: ko_KR.eucKR
+ iso8859-1/XLC_LOCALE: kw_GB.ISO8859-1
+ iso8859-14/XLC_LOCALE: kw_GB.ISO8859-14
+ iso8859-15/XLC_LOCALE: kw_GB.ISO8859-15
++iso8859-10/XLC_LOCALE: lg_UG.ISO8859-10
+ ibm-cp1133/XLC_LOCALE: lo_LA.IBM-CP1133
+ mulelao-1/XLC_LOCALE: lo_LA.MULELAO-1
+ iso8859-4/XLC_LOCALE: lt_LT.ISO8859-4
+@@ -203,8 +214,12 @@ iso8859-1/XLC_LOCALE: ny_NO.ISO8859-1
+ iso8859-1/XLC_LOCALE: ny_NO.ISO8859-15
+ iso8859-1/XLC_LOCALE: oc_FR.ISO8859-1
+ iso8859-15/XLC_LOCALE: oc_FR.ISO8859-15

```
+-iso8859-1/XLC_LOCALE:   pd_DE.ISO8859-1
+-iso8859-15/XLC_LOCALE:   pd_DE.ISO8859-15
++iso8859-1/XLC_LOCALE:   om_KE.ISO8859-1
++XCOMM Presumably, "pd" is "Pennsylvania 'Dutch'", a U.S. dialect of German.
++XCOMM
 This is not an ISO language code defined for it, and the GNU C Library
++XCOMM doesn't support it.
++XCOMM iso8859-1/XLC_LOCALE:   pd_DE.ISO8859-1
++XCOMM iso8859-15/XLC_LOCALE:   pd_DE.ISO8859-15
+ iso8859-1/XLC_LOCALE:   pd_US.ISO8859-1
+ iso8859-15/XLC_LOCALE:   pd_US.ISO8859-15
+ iso8859-1/XLC_LOCALE:   ph_PH.ISO8859-1
+@@ -224,6 +239,9 @@ iso8859-1/XLC_LOCALE:          rw_RW.IS
+ iso8859-2/XLC_LOCALE:    sh_YU.ISO8859-2
+ iso8859-2/XLC_LOCALE:    sk_SK.ISO8859-2
+ iso8859-2/XLC_LOCALE:    sl_SI.ISO8859-2
++iso8859-1/XLC_LOCALE:   so_DJ.ISO8859-1
++iso8859-1/XLC_LOCALE:   so_KE.ISO8859-1
++iso8859-1/XLC_LOCALE:   so_SO.ISO8859-1
+ iso8859-2/XLC_LOCALE:    sq_AL.ISO8859-2
+ iso8859-2/XLC_LOCALE:   sr_YU.ISO8859-2
+ iso8859-5/XLC_LOCALE:   sr_YU.ISO8859-5
+@@ -236,8 +254,8 @@ iso8859-1/XLC_LOCALE:   sv_SE.ISO8859-1
+ iso8859-15/XLC_LOCALE:   sv_SE.ISO8859-15
+ tscii-0/XLC_LOCALE:   ta_IN.TSCII-0
+ koi8-c/XLC_LOCALE:   tg_TJ.KOI8-C
+-th_TH/XLC_LOCALE:   th_TH.TIS620
+ iso8859-11/XLC_LOCALE:   th_TH.ISO8859-11
++th_TH/XLC_LOCALE:   th_TH.TIS620
+
 iso8859-1/XLC_LOCALE:    tl_PH.ISO8859-1
+ iso8859-15/XLC_LOCALE:   tn_ZA.ISO8859-15
+ iso8859-9/XLC_LOCALE:   tr_TR.ISO8859-9
+@@ -261,10 +279,14 @@ zh_CN.gbk/XLC_LOCALE:   zh_CN.gbk
+ zh_CN.gb18030/XLC_LOCALE:  zh_CN.gb18030
+ zh_HK.big5/XLC_LOCALE:   zh_HK.big5
+ zh_HK.big5hkscs/XLC_LOCALE:  zh_HK.big5hkscs
++zh_CN/XLC_LOCALE:   zh_SG.gb2312
++zh_CN.gbk/XLC_LOCALE   zh_SG.gbk
+ zh_TW.big5/XLC_LOCALE:   zh_TW.big5
+ zh_TW/XLC_LOCALE:   zh_TW.eucTW
+ iso8859-1/XLC_LOCALE:   zu_ZA.ISO8859-1
+ XCOMM Note: The UTF-8 locales don't work correctly yet. Work in progress.
++en_US.UTF-8/XLC_LOCALE:   aa_ER.UTF-8
++en_US.UTF-8/XLC_LOCALE:   aa_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   af_ZA.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   am_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   ar_AA.UTF-8
```

```
+@@ -297,6 +319,7 @@ en_US.UTF-8/XLC_LOCALE:   bn_BD.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   bn_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE:               bo_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   br_FR.UTF-8
++en_US.UTF-8/XLC_LOCALE:   byn_ER.UTF-8
+
 en_US.UTF-8/XLC_LOCALE:   ca_AD.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   ca_ES.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   ca_FR.UTF-8
+@@ -334,7 +357,8 @@ en_US.UTF-8/XLC_LOCALE:   en_UK.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   en_US.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   en_ZA.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   en_ZW.UTF-8
+-en_US.UTF-8/XLC_LOCALE:   eo_EO.UTF-8
++XCOMM The EO territory doesn't exist in ISO 3166.
++XCOMM en_US.UTF-8/XLC_LOCALE:   eo_EO.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   eo_XX.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   es_AR.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   es_BO.UTF-8
+@@ -358,6 +382,7 @@ en_US.UTF-8/XLC_LOCALE:   es_UY.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   es_VE.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   et_EE.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   eu_ES.UTF-8
++en_US.UTF-8/XLC_LOCALE:   eu_FR.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   fa_IR.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   fi_FI.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   fo_FO.UTF-8
+@@ -368,6 +393,8 @@ en_US.UTF-8/XLC_LOCALE:   fr_FR.UTF-8
+
 en_US.UTF-8/XLC_LOCALE:   fr_LU.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   ga_IE.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   gd_GB.UTF-8
++en_US.UTF-8/XLC_LOCALE:           gez_ER.UTF-8
++en_US.UTF-8/XLC_LOCALE:           gez_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   gl_ES.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   gu_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   gv_GB.UTF-8
+@@ -384,6 +411,7 @@ en_US.UTF-8/XLC_LOCALE:   is_IS.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   it_CH.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   it_IT.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   iu_CA.UTF-8
++en_US.UTF-8/XLC_LOCALE:   iw_IL.UTF-8
+ ja_JP.UTF-8/XLC_LOCALE:   ja_JP.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   ka_GE.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   kk_KZ.UTF-8
+@@ -403,9 +431,11 @@ en_US.UTF-8/XLC_LOCALE:
+ en_US.UTF-8/XLC_LOCALE:   mi_NZ.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   mk_MK.UTF-8
```

+ en_US.UTF-8/XLC_LOCALE: ml_IN.UTF-8
++en_US.UTF-8/XLC_LOCALE: mn_MN.UTF-8
+ en_US.UTF-8/XLC_LOCALE: mr_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE: ms_MY.UTF-8
+
 en_US.UTF-8/XLC_LOCALE: mt_MT.UTF-8
++en_US.UTF-8/XLC_LOCALE: ne_NP.UTF-8
+ en_US.UTF-8/XLC_LOCALE: nl_BE.UTF-8
+ en_US.UTF-8/XLC_LOCALE: nl_NL.UTF-8
+ en_US.UTF-8/XLC_LOCALE: nb_NO.UTF-8
+@@ -413,13 +443,19 @@ en_US.UTF-8/XLC_LOCALE: nn_NO.UTF-8
+ en_US.UTF-8/XLC_LOCALE: no_NO.UTF-8
+ en_US.UTF-8/XLC_LOCALE: nr_ZA.UTF-8
+ en_US.UTF-8/XLC_LOCALE: nso_ZA.UTF-8
+-en_US.UTF-8/XLC_LOCALE: ny_NO.UTF-8
++XCOMM ny is the language code for Nyanja (spoken in Malawi), not Nynorsk.
++XCOMM See <URL: http://www.ethnologue.com/show_iso639.asp?code=nya >.
++XCOMM en_US.UTF-8/XLC_LOCALE: ny_NO.UTF-8
+ en_US.UTF-8/XLC_LOCALE: oc_FR.UTF-8
++en_US.UTF-8/XLC_LOCALE: om_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE: or_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE: pa_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE: pa_PK.UTF-8
+-en_US.UTF-8/XLC_LOCALE: pd_DE.UTF-8
+-en_US.UTF-8/XLC_LOCALE: pd_US.UTF-8
++XCOMM Presumably, "pd" is "Pennsylvania 'Dutch'", a U.S. dialect of German.
++XCOMM
 This is not an ISO language code defined for it, and the GNU C Library
++XCOMM doesn't support it.
++XCOMM en_US.UTF-8/XLC_LOCALE: pd_DE.UTF-8
++XCOMM en_US.UTF-8/XLC_LOCALE: pd_US.UTF-8
+ en_US.UTF-8/XLC_LOCALE: ph_PH.UTF-8
+ en_US.UTF-8/XLC_LOCALE: pl_PL.UTF-8
+ en_US.UTF-8/XLC_LOCALE: pp_AN.UTF-8
+@@ -433,11 +469,13 @@ en_US.UTF-8/XLC_LOCALE:
+ en_US.UTF-8/XLC_LOCALE: sd_IN.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sd_IN.UTF-8@devanagari
+ en_US.UTF-8/XLC_LOCALE: se_NO.UTF-8
++en_US.UTF-8/XLC_LOCALE: sid_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sh_BA.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sh_YU.UTF-8
+ en_US.UTF-8/XLC_LOCALE: si_LK.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sk_SK.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sl_SI.UTF-8
++en_US.UTF-8/XLC_LOCALE: so_ET.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sq_AL.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sr_ME.UTF-8
+ en_US.UTF-8/XLC_LOCALE: sr_RS.UTF-8

```
+@@ -453,6 +491,7 @@ en_US.UTF-8/XLC_LOCALE:   tg_TJ.UTF-8
+
 th_TH.UTF-8/XLC_LOCALE:   th_TH.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   ti_ER.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   ti_ET.UTF-8
++en_US.UTF-8/XLC_LOCALE:           tig_ER.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   tl_PH.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   tn_ZA.UTF-8
+ en_US.UTF-8/XLC_LOCALE:   tr_TR.UTF-8
--- libx11-1.7.2.orig/debian/patches/007_iso8859-15_Compose_fix.diff
+++ libx11-1.7.2/debian/patches/007_iso8859-15_Compose_fix.diff
@@ -0,0 +1,137 @@
+$Id: 019_iso8859-15_Compose_fix.diff 396 2005-07-22 21:45:02Z dnusinow $
+
+This patch by Wolfgang Sourdeau and Rüdiger Kuhlmann.
+
+Account for lack of spacing diaeresis key and codepoint.
+
+https://bugs.debian.org/97433
+
+--- a/nls/iso8859-15/Compose.pre
++++ b/nls/iso8859-15/Compose.pre
+@@ -155,8 +155,7 @@ XCOMM Special Character
+ <Multi_key> <minus> <colon>  : "\367" division
+ <Multi_key> <colon> <minus>  : "\367" division
+ <Multi_key> <x> <x>   : "\327" multiply
+-<Multi_key> <apostrophe> <apostrophe> : "\264" acute
+-<Multi_key>
+ <comma> <comma>  : "\270" cedilla
++<Multi_key> <apostrophe> <apostrophe> : """  apostrophe
+ <Multi_key> <quotedbl> <quotedbl> : "\"" quotedbl
+ XCOMM Accented Alphabet
+ <Multi_key> <A> <grave>   : "\300" Agrave
+@@ -175,8 +174,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <minus> <A>   : "\303" Atilde
+ <Multi_key> <A> <quotedbl>  : "\304" Adiaeresis
+ <Multi_key> <quotedbl> <A>  : "\304" Adiaeresis
+-<Multi_key> <A> <diaeresis>  : "\304" Adiaeresis
+-<Multi_key> <diaeresis> <A>  : "\304" Adiaeresis
+ <Multi_key> <A> <asterisk>  : "\305" Aring
+ <Multi_key> <asterisk> <A>  : "\305" Aring
+ <Multi_key> <A> <A>   : "\305" Aring
+@@ -198,8 +195,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <minus> <a>   : "\343" atilde
+ <Multi_key> <a> <quotedbl>  : "\344" adiaeresis
+ <Multi_key> <quotedbl> <a>  : "\344" adiaeresis
+-<Multi_key> <a> <diaeresis>  : "\344" adiaeresis
+-<Multi_key> <diaeresis> <a>  : "\344" adiaeresis
```

```
+ <Multi_key> <a> <asterisk>  : "\345" aring
+ <Multi_key> <asterisk>
 <a>  : "\345" aring
+ <Multi_key> <a> <a>   : "\345" aring
+@@ -231,8 +226,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <E>  : "\312" Ecircumflex
+ <Multi_key> <E> <quotedbl>  : "\313" Ediaeresis
+ <Multi_key> <quotedbl> <E>  : "\313" Ediaeresis
+-<Multi_key> <E> <diaeresis>  : "\313" Ediaeresis
+-<Multi_key> <diaeresis> <E>  : "\313" Ediaeresis
+ <Multi_key> <e> <grave>   : "\350" egrave
+ <Multi_key> <grave> <e>   : "\350" egrave
+ <Multi_key> <e> <acute>   : "\351" eacute
+@@ -245,8 +238,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <e>  : "\352" ecircumflex
+ <Multi_key> <e> <quotedbl>  : "\353" ediaeresis
+ <Multi_key> <quotedbl> <e>  : "\353" ediaeresis
+-<Multi_key> <e> <diaeresis>  : "\353" ediaeresis
+-<Multi_key> <diaeresis> <e>  : "\353" ediaeresis
+ <Multi_key> <I> <grave>   : "\314" Igrave
+ <Multi_key> <grave> <I>   : "\314" Igrave
+ <Multi_key> <I> <acute>   : "\315" Iacute
+@@ -259,8 +250,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <I>  : "\316" Icircumflex
+
 <Multi_key> <I> <quotedbl>  : "\317" Idiaeresis
+ <Multi_key> <quotedbl> <I>  : "\317" Idiaeresis
+-<Multi_key> <I> <diaeresis>  : "\317" Idiaeresis
+-<Multi_key> <diaeresis> <I>  : "\317" Idiaeresis
+ <Multi_key> <i> <grave>   : "\354" igrave
+ <Multi_key> <grave> <i>   : "\354" igrave
+ <Multi_key> <i> <acute>   : "\355" iacute
+@@ -273,8 +262,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <i>  : "\356" icircumflex
+ <Multi_key> <i> <quotedbl>  : "\357" idiaeresis
+ <Multi_key> <quotedbl> <i>  : "\357" idiaeresis
+-<Multi_key> <i> <diaeresis>  : "\357" idiaeresis
+-<Multi_key> <diaeresis> <i>  : "\357" idiaeresis
+ <Multi_key> <N> <asciitilde>  : "\321" Ntilde
+ <Multi_key> <asciitilde> <N>  : "\321" Ntilde
+ <Multi_key> <N> <minus>   : "\321" Ntilde
+@@ -299,8 +286,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <minus> <O>   : "\325" Otilde
+ <Multi_key> <O> <quotedbl>  : "\326" Odiaeresis
+ <Multi_key> <quotedbl> <O>  : "\326" Odiaeresis
+-<Multi_key> <O> <diaeresis>  :
 "\326" Odiaeresis
+-<Multi_key> <diaeresis> <O>  : "\326" Odiaeresis
```

```
+ <Multi_key> <O> <slash>   : "\330" Ooblique
+ <Multi_key> <slash> <O>   : "\330" Ooblique
+ <Multi_key> <O> <E>   : "\274" OE
+@@ -320,8 +305,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <minus> <o>   : "\365" otilde
+ <Multi_key> <o> <quotedbl>  : "\366" odiaeresis
+ <Multi_key> <quotedbl> <o>  : "\366" odiaeresis
+-<Multi_key> <o> <diaeresis>  : "\366" odiaeresis
+-<Multi_key> <diaeresis> <o>  : "\366" odiaeresis
+ <Multi_key> <o> <slash>   : "\370" oslash
+ <Multi_key> <slash> <o>   : "\370" oslash
+ <Multi_key> <o> <e>   : "\275" oe
+@@ -341,8 +324,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <U>  : "\333" Ucircumflex
+ <Multi_key> <U> <quotedbl>  : "\334" Udiaeresis
+ <Multi_key> <quotedbl> <U>  : "\334" Udiaeresis
+-<Multi_key> <U> <diaeresis>  : "\334" Udiaeresis
+-<Multi_key> <diaeresis> <U>  : "\334" Udiaeresis
+ <Multi_key> <u> <grave>   : "\371" ugrave
+ <Multi_key> <grave> <u>   : "\371" ugrave
+
 <Multi_key> <u> <acute>   : "\372" uacute
+@@ -355,8 +336,6 @@ XCOMM Accented Alphabet
+ <Multi_key> <greater> <u>  : "\373" ucircumflex
+ <Multi_key> <u> <quotedbl>  : "\374" udiaeresis
+ <Multi_key> <quotedbl> <u>  : "\374" udiaeresis
+-<Multi_key> <u> <diaeresis>  : "\374" udiaeresis
+-<Multi_key> <diaeresis> <u>  : "\374" udiaeresis
+ <Multi_key> <s> <s>   : "\337" ssharp
+ <Multi_key> <T> <H>   : "\336" THORN
+ <Multi_key> <t> <h>   : "\376" thorn
+@@ -366,16 +345,12 @@ XCOMM Accented Alphabet
+ <Multi_key> <apostrophe> <Y>  : "\335" Yacute
+ <Multi_key> <Y> <quotedbl>  : "\276" Ydiaeresis
+ <Multi_key> <quotedbl> <Y>  : "\276" Ydiaeresis
+-<Multi_key> <Y> <diaeresis>  : "\276" Ydiaeresis
+-<Multi_key> <diaeresis> <Y>  : "\276" Ydiaeresis
+ <Multi_key> <y> <acute>   : "\375" yacute
+ <Multi_key> <acute> <y>   : "\375" yacute
+ <Multi_key> <y> <apostrophe>  : "\375" yacute
+ <Multi_key> <apostrophe> <y>  : "\375" yacute
+ <Multi_key> <y> <quotedbl>  : "\377" ydiaeresis
+
 <Multi_key> <quotedbl> <y>  : "\377" ydiaeresis
+-<Multi_key> <y> <diaeresis>  : "\377" ydiaeresis
+-<Multi_key> <diaeresis> <y>  : "\377" ydiaeresis
+ <Multi_key> <Z> <less>   : "\264" Zcaron
+ <Multi_key> <less> <Z>   : "\264" Zcaron
```

```
+ <Multi_key> <z> <less>   : "\270" zcaron
+@@ -404,8 +379,7 @@ XCOMM These are for us_intl, that does n
+ <dead_cedilla> <minus>   : "\254" notsign
+ <dead_circumflex> <minus>  : "\257" macron
+ <dead_circumflex> <underscore>  : "\257" macron
+-<dead_acute> <apostrophe>  : "\264" acute
+-<dead_cedilla> <comma>   : "\270" cedilla
++<dead_acute> <apostrophe>  : """  apostrophe
+ <dead_diaeresis> <quotedbl>  : "\"" quotedbl
+ XCOMM Accented Alphabet
+ <dead_abovering> <A>   : "\305" Aring
--- libx11-1.7.2.orig/debian/patches/008_remove_ko_Compose.diff
+++ libx11-1.7.2/debian/patches/008_remove_ko_Compose.diff
@@ -0,0 +1,14 @@
+Index: libx11/nls/compose.dir.pre
+===================================================================
+--- libx11.orig/nls/compose.dir.pre 2013-06-15
 17:42:43.987732157 +0200
++++ libx11/nls/compose.dir.pre 2013-06-15 17:42:46.371732132 +0200
+@@ -182,7 +182,8 @@
+ iso8859-14/Compose:  kw_GB.ISO8859-14
+ iso8859-15/Compose:  kw_GB.ISO8859-15
+ iso8859-10/Compose:  lg_UG.ISO8859-10
+-ko/Compose:   ko_KR.eucKR
++XCOMM Remove ko/Compose, as requested in https://bugs.debian.org/89703
++XCOMM ko/Compose:   ko_KR.eucKR
+ ibm-cp1133/Compose:  lo_LA.IBM-CP1133
+ mulelao-1/Compose:  lo_LA.MULELAO-1
+ iso8859-4/Compose:  lt_LT.ISO8859-4
--- libx11-1.7.2.orig/debian/patches/009_remove_th_Compose.diff
+++ libx11-1.7.2/debian/patches/009_remove_th_Compose.diff
@@ -0,0 +1,13 @@
+--- a/nls/compose.dir.pre
++++ b/nls/compose.dir.pre
+@@ -484,7 +484,9 @@ en_US.UTF-8/Compose:  sv_SE.UTF-8
+ en_US.UTF-8/Compose:  ta_IN.UTF-8
+ en_US.UTF-8/Compose:  te_IN.UTF-8
+ en_US.UTF-8/Compose:  tg_TJ.UTF-8
+-th_TH.UTF-8/Compose:  th_TH.UTF-8
++XCOMM Following entry commented to allow Thai XIM as default for X apps
++XCOMM See Debian bug#520509
++XCOMM
+ th_TH.UTF-8/Compose:  th_TH.UTF-8
+ en_US.UTF-8/Compose:  ti_ER.UTF-8
+ en_US.UTF-8/Compose:  ti_ET.UTF-8
+ en_US.UTF-8/Compose:  tig_ER.UTF-8
--- libx11-1.7.2.orig/debian/patches/015_russian_locale_alias.diff
+++ libx11-1.7.2/debian/patches/015_russian_locale_alias.diff
```

```
@@ -0,0 +1,27 @@
+Fix russian locale.  Closes: #368655.
+
+This aligns with the glibc definition in /usr/share/locale/locale.alias.
+This only applies to Debian's glibc, see bug #62586 and glibc 2.2.5-4.
+
+For the same glib reason, we cannot change ru and ru_RU away from ISO8859-5,
+since that encoding is enshrined in /usr/share/i18n/locales/ru_RU.  Insert
+appropriate perjorative language here.
+
+Suggestion: can the russian default be changed to UTF-8 instead of KOI8-R?
+This will make it easier for russians to fit in with the rest of the world.
+
+---
+ nls/locale.alias.pre |    2 +-
+ 1 file changed, 1 insertion(+), 1 deletion(-)
+
+--- a/nls/locale.alias.pre
++++ b/nls/locale.alias.pre
+@@ -1250,7 +1250,7
  @@ portuguese:     pt_PT.ISO8859-1
+ portuguese.iso88591:    pt_PT.ISO8859-1
+ romanian:     ro_RO.ISO8859-2
+ rumanian:     ro_RO.ISO8859-2
+-russian:     ru_RU.ISO8859-5
++russian:     ru_RU.KOI8-R
+ serbocroatian:     sr_RS.UTF-8@latin
+ sinhala:     si_LK.UTF-8
+ slovak:     sk_SK.ISO8859-2
--- libx11-1.7.2.orig/debian/patches/016_InitExt.c-Add-bounds-checks-for-extension-request-ev.diff
+++ libx11-1.7.2/debian/patches/016_InitExt.c-Add-bounds-checks-for-extension-request-ev.diff
@@ -0,0 +1,110 @@
+From: Alan Coopersmith <alan.coopersmith@oracle.com>
+Date: Sat, 10 Jun 2023 16:30:07 -0700
+Subject: InitExt.c: Add bounds checks for extension request, event, & error
+ codes
+Origin: https://gitlab.freedesktop.org/xorg/lib/libx11/-/commit/304a654a0d57bf0f00d8998185f0360332cfa36c
+Bug-Debian: https://bugs.debian.org/1038133
+Bug-Debian-Security: https://security-tracker.debian.org/tracker/CVE-2023-3138
+
+Fixes CVE-2023-3138: X servers could return values from XQueryExtension
+that
 would cause Xlib to write entries out-of-bounds of the arrays to
+store them, though this would only overwrite other parts of the Display
+struct, not outside the bounds allocated for that structure.
+
+Reported-by: Gregory James DUCK <gjduck@gmail.com>
+Signed-off-by: Alan Coopersmith <alan.coopersmith@oracle.com>
```

```
+---
+ src/InitExt.c | 42 ++++++++++++++++++++++++++++++++++++++++++++
+ 1 file changed, 42 insertions(+)
+
+diff --git a/src/InitExt.c b/src/InitExt.c
+index 4de46f157b33..afc00a6b6f10 100644
+--- a/src/InitExt.c
++++ b/src/InitExt.c
+@@ -33,6 +33,18 @@ from The Open Group.
+ #include <X11/Xos.h>
+ #include <stdio.h>
+
++/* The X11 protocol spec reserves events 64 through 127 for extensions */
++#ifndef LastExtensionEvent
++#define LastExtensionEvent 127
++#endif
++
++/* The X11 protocol spec reserves requests 128 through 255 for extensions */
++#ifndef LastExtensionRequest
++#define FirstExtensionRequest 128
++#define LastExtensionRequest 255
++#endif
++
++
+ /*
+  * This
 routine is used to link a extension in so it will be called
+  * at appropriate times.
+@@ -242,6 +254,12 @@ WireToEventType XESetWireToEvent(
+  WireToEventType proc) /* routine to call when converting event */
+ {
+  register WireToEventType oldproc;
++ if (event_number < 0 ||
++     event_number > LastExtensionEvent) {
++     fprintf(stderr, "Xlib: ignoring invalid extension event %d\n",
++      event_number);
++     return (WireToEventType)_XUnknownWireEvent;
++ }
+  if (proc == NULL) proc = (WireToEventType)_XUnknownWireEvent;
+  LockDisplay (dpy);
+  oldproc = dpy->event_vec[event_number];
+@@ -263,6 +281,12 @@ WireToEventCookieType XESetWireToEventCookie(
+     )
+ {
+  WireToEventCookieType oldproc;
++ if (extension < FirstExtensionRequest ||
++     extension > LastExtensionRequest) {
++     fprintf(stderr, "Xlib: ignoring invalid extension opcode %d\n",
```

```
++      extension);
++     return (WireToEventCookieType)_XUnknownWireEventCookie;
++ }
+  if (proc == NULL) proc = (WireToEventCookieType)_XUnknownWireEventCookie;
+
  LockDisplay (dpy);
+  oldproc = dpy->generic_event_vec[extension & 0x7F];
+@@ -284,6 +308,12 @@ CopyEventCookieType XESetCopyEventCookie(
+     )
+ {
+  CopyEventCookieType oldproc;
++ if (extension < FirstExtensionRequest ||
++     extension > LastExtensionRequest) {
++     fprintf(stderr, "Xlib: ignoring invalid extension opcode %d\n",
++      extension);
++     return (CopyEventCookieType)_XUnknownCopyEventCookie;
++ }
+  if (proc == NULL) proc = (CopyEventCookieType)_XUnknownCopyEventCookie;
+  LockDisplay (dpy);
+  oldproc = dpy->generic_event_copy_vec[extension & 0x7F];
+@@ -305,6 +335,12 @@ EventToWireType XESetEventToWire(
+  EventToWireType proc) /* routine to call when converting event */
+ {
+  register EventToWireType oldproc;
++ if (event_number < 0 ||
++     event_number > LastExtensionEvent) {
++     fprintf(stderr, "Xlib: ignoring invalid extension event %d\n",
++      event_number);
++     return (EventToWireType)_XUnknownNativeEvent;
++ }
+
  if (proc == NULL) proc = (EventToWireType) _XUnknownNativeEvent;
+  LockDisplay (dpy);
+  oldproc = dpy->wire_vec[event_number];
+@@ -325,6 +361,12 @@ WireToErrorType XESetWireToError(
+  WireToErrorType proc) /* routine to call when converting error */
+ {
+  register WireToErrorType oldproc = NULL;
++ if (error_number < 0 ||
++     error_number > LastExtensionError) {
++    fprintf(stderr, "Xlib: ignoring invalid extension error %d\n",
++      error_number);
++    return (WireToErrorType)_XDefaultWireError;
++ }
+  if (proc == NULL) proc = (WireToErrorType)_XDefaultWireError;
+  LockDisplay (dpy);
+  if (!dpy->error_vec) {
+--
```

```
+2.40.1
+
--- libx11-1.7.2.orig/debian/patches/series
+++ libx11-1.7.2/debian/patches/series
@@ -0,0 +1,11 @@
+003_recognize_glibc_2.3.2_locale_names.diff
+007_iso8859-15_Compose_fix.diff
+008_remove_ko_Compose.diff
+009_remove_th_Compose.diff
+015_russian_locale_alias.diff
+016_InitExt.c-Add-bounds-checks-for-extension-request-ev.diff
+0001-CVE-2023-43785-out-of-bounds-memory-access-in-_XkbRe.patch
+0002-CVE-2023-43786-stack-exhaustion-from-infinite-recurs.patch
+0003-XPutImage-clip-images-to-maximum-height-width-allowe.patch
+0004-XCreatePixmap-trigger-BadValue-error-for-out-of-rang.patch
+0005-CVE-2023-43787-Integer-overflow-in-XCreateImage-lead.patch
---
 libx11-1.7.2.orig/debian/rules
+++ libx11-1.7.2/debian/rules
@@ -0,0 +1,31 @@
+#!/usr/bin/make -f
+
+%:
+ dh $@ --with quilt --builddirectory=build/
+
+override_dh_auto_configure-indep: docflags = --enable-specs --with-xmlto
+override_dh_auto_configure-arch: docflags = --disable-specs
+
+override_dh_auto_configure-indep override_dh_auto_configure-arch:
+ dh_auto_configure -- \
+  $(docflags) \
+  --without-fop
+
+override_dh_installdocs:
+ dh_installdocs NEWS
+
+override_dh_install:
+ # Kill *.xml, *.la files, we don't need them:
+ find debian/tmp -name '*.xml' -delete
+ find debian/tmp -name '*.la' -delete
+ dh_install -plibx11-dev \
+           --exclude=usr/include/X11/Xlib-xcb.h
+ dh_install
 -plibx11-doc \
+           --exclude=usr/include/X11/Xlib-xcb.h \
+           --exclude=usr/share/man/man3/XGetXCBConnection.3 \
+           --exclude=usr/share/man/man3/XSetEventQueueOwner.3
+ dh_install --remaining-packages
```

```
+
+override_dh_makeshlibs:
+ dh_makeshlibs -a -plibx11-6 -V'libx11-6 (>= 2:1.6.0)' --add-udeb=libx11-6-udeb -- -c4
+ dh_makeshlibs -a -Nlibx11-6 -- -c4
--- libx11-1.7.2.orig/debian/source/format
+++ libx11-1.7.2/debian/source/format
@@ -0,0 +1 @@
+1.0
--- libx11-1.7.2.orig/debian/upstream/signing-key.asc
+++ libx11-1.7.2/debian/upstream/signing-key.asc
@@ -0,0 +1,631 @@
+-----BEGIN PGP PUBLIC KEY BLOCK-----
+Version: GnuPG v1
+
+mQGiBEab+moRBACDH5yKqS3wcc5bdxY7PBNuwKvF5TKMfagmSvuRDtZjjIIWaA/n
+Z1KboV9Gq5g7kP7+Kfu+Qgd8u65eVsWwmPW10fXvj3aCU53glx2EdGdrHcgiyH2g
+EQfPiyBw+trIppWFRV0IDXSLMA1FNC92t2nSG/VFHaPTVwcgkIRSfcXDvwCglGdE
+a6f4uLqoNHP+m4yYnzapFuMD/R4+2AJDAvEWKDdYCGZzlawjAmmWyXrmT7/C/mx9
+8qUR473l4buXjHgDkkXXlHqdzil1vK85PhrKzNJDCCmlHUJNz+QwiAMOLwpD+kwV
+Pb57RG7y+a5JQ5+jtVw4RlUxZIk/wj2An9YBO3A5vR7PdjM32ZJCN2+aM4dYfNzQ
+xQKTA/47icvBaBVTl9rztjg2pd2Aqpc1P/GsIYLGj7XjnnJvGAENBHSH1QjpZMJG
+CTS9oJ+B0/wrIr+pA+MdFgYAb6ojMQJOO6UChjWWSGjMFcs/CeXhxlLBido3DtAE
+TbNTwO6OEfAvdosvTdhJFnwvZlJ+zZGGy5CrF2Fd9PUe9tmASbQoQWxhbiBDb29w
+ZXJzbWl0aCA8YWxhbmNAZnJlZWRlc2t0b3Aub3JnPohoBBMRAgAoAhsDBgsJCAcD
+AgYVCAIJCgsEFgIDAQIeAQIXgAUCUXnRYgUJFEPYeAAKCRCi+54IHy0TDonxAKCP
+cAgXNojuujUg5Wqi6v0RBFVSUgCggq1SsVEdq9NDWvXvkeGyNaBivSK0K0FsYW4g
+Q29vcGVyc21pdGggPGFsYW4uY29vcGVyc21pdGhAc3VuLmNvbT6IZgQTEQIAJgIb
+AwYLCQgHAwIEFQIIAwQWAgMBAh4BAheABQJRedFiBQkUQ9h4AAoJEKL7nggfLRMO
+6sUAn0jl3h9rY4OJ13Lu7nsKclyhDpOqAKCFgTmaDGRuDRxloLg9jftrn7a7vrQu
+QWxhbiBDb29wZXJzbWl0aCA8YWxhbi5jb29wZXJzbWl0aEBvcmFjbGUuY29tPohr
+BBMRAgArAhsDBgsJCAcDAgYVCAIJCgsEFgIDAQIeAQIXgAIZAQUCUXnRYgUJFEPY
+eAAKCRCi+54IHy0TDtBZAJ9IgVVNoFIPRjTsNjcSFaLznuDRJgCcC/WgV312IrxS
+Q8PRAyEgozSB9Ke5Ag0ERpv6bxAIAJp5aUlho5rUhpS6ik7spsAQFPRuycPKMNu0
+J4F0v/OoPz085soV8ytLj4HqCGk2Zamh1jSgliZwuk9m7V7Wgxx+nBJawpWDX/eK
+LObErfDwQ4dfOFvjbXLQMmNnQNaUGIWLPP3l8GuBOHMq60Bu+TPgh627vUntL5RE
+QEQqTXIzWC6U10QsDblLwIvdOVSdGF5xl/N1myXzSKvrsZwWtoFc8G9v9hcCjhtN
+1sm9b7Ojc51iZXvcetcvPy5RA6AUW3yEExaedUdLnvIF9sjFYIfJWFVYh2AgavnG
+re6fF+NV2v3zfx3wRT7H9//m4YIDYJmgZgyQccXegTwfGBIq3osAAwYH/1FiMUMM
+ES5Ilz2nDqId+DCWECAU6wgvIFRcXrZWxDxB+ZrnmTCXoAD0xedpfOkRHp8XTVc/
+9MU+wQ+lZRx2OQ6MJW0XGuFvHm94KZF/8HzWA2Ah7U4n0+3sLpk6zWceZq2zZNF0
+yVTjwD98+xNK1Q9sP8aOKdtg8yMH3hisKR6rdW+mfX5q0Q8Gol2hZsFH/qyIhnPz
+hXDknuOh8E5iMkzrejVXUEn++Yzj23XjP59SObLznVkyxI+kBI9qvVEPfFBDybjH
+WqLcgRcCpXAzjizEi+/d31iDa2ErJHV4R42obecFqiPnoDtiX3IiP7z9fmxM4aWP
+ZZRqvq+1ht5wkn+ISQQYEQIACQUCRpv6bwIbDAAKCRCi+54IHy0TDoLoAKCHYRpw
+/XfyEunw1YL/uMZzl78qIQCdFVcXNbqD83qVhW4Ly7hyDL8o0aK5Ag0EUXnVIQEQ
+AKHpjOmY056n0tsZoW9q5egsMcl5tKC8uimrhO05nnq+5/60/YedC++V9c9b/3/X
+7O28LyBkAtBgD0xJZSDQ0DhTzKAp6AzjQtBvI68uinGwxSjT+oQpPMxqhA1I0kzo
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```

+hMwANhy6XZmOMBhITOzxFJUEDTDJtLbE0b1jPRQS7NHQgak1inmuvPMc3wAuoEcS
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+=tc6G
+-----END
 PGP PUBLIC KEY BLOCK-----
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+
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+uFirgwtX5t8nt8jCmIl75KNUKOakoENY3hLWtr16W8fO1JGkEhghI2mXcz664KTd
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+97sRMG4WcxaYfWpPyO3MCmDyGeh4sW0OC06PpED3i9xMzf/kMkMdY4ZIFcLRcPtf
+LIJhw+lc/GE1Rqe961IB5xCgnZezB7ZIL+ZlOAMwKGkq7lLbcZr2QZn84lpABKF0
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+eyTHa5cytGahgVtUcui1lzqcCBkqwN8TKl+0wCcEnxRasHJy3A2Gp+AG3wARAQAB
+tCJNYXR0aGlldSBIZXJyYiA8bWF0dGhpZXVAaGVycmIuZXU+iQI+BBMBAgAoBQJX
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+=WW1Z
+-----END
PGP PUBLIC KEY BLOCK-----
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+
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file_io/unix/mktemp.c, strings/apr_strings.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_fnmatch.c, include/apr_fnmatch.h,
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From strings/apr_strnatcmp.c, include/apr_strings.h:

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1.284 libcrack 2.9.6-3.4

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[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

> -----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,
> > 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
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt 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 l91Gxtpr020623
 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>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@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

1.285 idna 3.4

1.285.1 Available under license :

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1.286 libyaml-dev 0.2.2-1

1.286.1 Available under license :

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1.287 libsepol-devel 3.1-1+deb11u1

1.287.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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free software--to make sure the software is free for all its users.

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you first think carefully about whether
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strategy to use in any particular case, based on the explanations below.

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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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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
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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 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.

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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1.295 cpp 1.190

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Version 3, 29 June 2007

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1.300 python-certifi 2023.07.22

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ca-bundle.crt -- Bundle of CA Root Certificates

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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==========

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The hypothetical commands `show

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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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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the
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1.304 e2fsprogs 1.46.0-1

1.304.1 Available under license :

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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 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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#
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): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(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-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)
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```

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. 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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This package was added to the e2fsprogs debian source package by
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 @@ Rev: 23371
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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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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That's all there is to it!
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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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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1.305 libc-dev 2.31-13+deb11u11

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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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1.308 gnupg-utils 2.2.27-2+deb11u2

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1) Use a suitable shared library mechanism for linking with the
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a copy of the Library already present on the user's computer
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necessary to install and execute a modified version of the
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Application with a modified version of the Linked Version. (If
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
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1.311 open-ldap 2.4.57+dfsg-3+deb11u1

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700

From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
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Regards, Juan

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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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 * To: Stephen Frost <sfrost@snowman.net>
 * Subject: Re: OpenLDAP Licenseing issues
 * From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
  * Date: Wed, 28 May 2003 10:55:44 -0700
 * Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org

* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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Regards, Kurt

1.312 adduser 3.118+deb11u1

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<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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Since May 20 2000, it is maintained by Roland Bauerschmidt
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Since March 24 2004, it is maintained by Roland Bauerschmidt
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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that
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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

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Otherwise, if the work is a derivative of the Library, you may distribute the
object code for the work under the terms of Section 6.
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1.316 tcl-dev 8.6.11+1

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1.317 libthai 0.1.28-3

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1.318 mpfr 4.1.0-3

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```
#
# These procedures come from the source code of GFun.
#
getname:=proc(yofz::function(name), y, z)
```

```
 y:=op(0,yofz);
 if type(y,'procedure') then error `not an unassigned name`,y fi;
 z:=op(yofz)
end proc:


#
# returns the smallest i such that u(n+i) appears in a recurrence
#
minindex := proc(rec,u,n)
 min(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
end proc:


#
# returns the largest i such that u(n+i) appears in a recurrence
#
maxindex := proc(rec,u,n)
 max(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
end proc:


#
# A recurrence of the form a(n+d) = p(n)/q(n) a(n) is represented through a record:
# OneTermRecurrence : record(order, numerator, denominator)
#
`type/OneTermRecurrence` := 'record(order, numerator, denominator)':


#
#checkOneTermRecurrence
# Input: a recurrence rec (either with or without initial conditions).
#          If it has initial conditions, they are ignored.
#        a(n): the name of the sequence and the name of the variable.
#
# Output:
#
 This procedure checks that rec is a recurrence of the form a(n+d) = p(n)/q(n) a(n)
# If the check succeeds, it returns the corresponding record. If it fails, an error is
# returned.
#
checkOneTermRecurrence := proc(rec, aofn)::OneTermRecurrence;
 local r, d, a, n, term1, term2, res;

 getname(aofn, a, n):
 if type(rec, 'set') then
   r:=select(has, rec, n);
   if nops(r)>1
```

```
    then error `invalid recurrence`, rec
  fi:
  if nops(r)=0
    then error "%1 does not appear in the recurrence", n
  fi:
  r := op(r):
 else r:=rec:
 fi:
 if type(r,'`=`')
  then r:=op(1,r)-op(2,r)
 fi:
 if indets(r,'specfunc'('anything',a)) <> indets(r,'specfunc'('linear'(n),a))
  then error "the recurrence contains elements that are not linear in %1", n
 fi:
 if nops(r) <> 2
  then error "the recurrence contains %1 terms (expected 2)", nops(r)
 fi:
 r := subs(n=n-minindex(r, a, n), r):
 d := maxindex(r, a, n):

 term1 := select(has, r, a(n)):
 term2 := select(has, r, a(n+d)):

  res := factor( -(term1/a(n)) / (term2/a(n+d)) ):

 Record( 'order'=d, 'numerator' = numer(res), 'denominator' = denom(res) )
end proc:


#
# my_factors factorizes p the same way as factors(p) would do except that the constant part is computed
# differently. We assume here that p has integer coefficients, and we want to factorize it over polynomials
# with integer coefficients. my_factors ensures that the factors have integer coefficients.
#
my_factors := proc(p)
 local L, c, fact, i, my_c, my_fact, q:
 L := factors(p):
 c := L[1]: fact := L[2]:
 my_c := c: my_fact := []:
 for i from 1 to nops(fact) do
  q := denom(fact[i][1]):
  my_fact := [ op(my_fact), [ fact[i][1]*q, fact[i][2] ] ]:
  my_c := my_c / (q^fact[i][2]):
 od:
 [ my_c, my_fact]:
end proc:
```

```
#
# This procedure decomposes a one-term recurrence with the following form:
# a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)
#
# Known issue: this procedure assumes that the only variables involved are
 n and x with their usual meaning.
#
decomposeOneTermRecurrence := proc(formalRec::OneTermRecurrence, res_cste, res_s1, res_s2, res_p, res_q)
 local p, q, cste, s1, s2, d, L, i, tmp, exponent, r, polyring;
 p := formalRec:-numerator:
 q := formalRec:-denominator:
 d := formalRec:-order:
 s1 := 1:
 L := op(2,my_factors(p)): # L contains the non trivial factors of p
 for i from 1 to nops(L) do
   tmp := L[i][1]: exponent := L[i][2]:
   r := gcd(tmp^exponent, subs(n=n-d, q)):
   p := quo(p,r,n): q := quo(q, subs(n=n+d, r),n): s1 := s1 * r:
 od:

 s2 := 1:
 L := op(2,my_factors(p)): # L contains the *remaining* non trivial factors of p
 for i from 1 to nops(L) do
   tmp := L[i][1]: exponent := L[i][2]:
   r := gcd(tmp^exponent, subs(n=n+d, q)):
   p := quo(p, r, n): q := quo(q, subs(n=n-d, r), n): s2 := s2 * r:
 od:

 # Finally we look for the constant part (with respect to n) of p/q
 cste := op(1, my_factors(p))/op(1, my_factors(q)):
 p := p/op(1, my_factors(p)): q :=
 q/op(1, my_factors(q)):
 polyring := RegularChains[PolynomialRing]([n,x]):
 L := op(2, my_factors(p)):
 for i from 1 to nops(L) do
   if RegularChains[MainVariable](L[i][1], polyring) = x
     then cste := cste * L[i][1]^L[i][2]: p := quo(p,L[i][1]^L[i][2],x):
   fi:
 od:
 L := op(2, my_factors(q)):
 for i from 1 to nops(L) do
   if RegularChains[MainVariable](L[i][1], polyring) = x
     then cste := cste / L[i][1]^L[i][2]: q := quo(q,L[i][1]^L[i][2],x):
   fi:
 od:

 res_cste := cste;
 res_s1 := s1;
```

```
 res_s2 := s2;
 res_p := simplify(p);
 res_q := simplify(q);
end proc:


#
#coeffrecToTermsrec
# Input: a linear recurrence rec (either with or without initial conditions).
#          a(n): the name of the sequence and the name of the variable.
#          x: a value or symbolic name
#
# Output:
# The recurrence satisfied by a(n)*x^n. Note that this recurrence is also denoted by a(n).
# If initial conditions were provided, corresponding initial conditions are computed.
#
coeffrecToTermsrec
 := proc(rec, aofn, x)
 local a,n,L,r,cond,d,i,tmp,c,res;
 getname(aofn, a, n):
 if type(rec, 'set') then
   L := selectremove(has, rec, n):
   r := L[1]:
   if nops(r)>1
     then error `invalid recurrence`, rec
   fi:
   if nops(r)=0
     then error "%1 does not appear in the recurrence", n
   fi:
   r := op(r):
   cond := L[2]:
 else r := rec:
 fi:
 d := maxindex(r, a, n):
 L := indets(r,'specfunc'('linear'(n),a)):
 if indets(r,'specfunc'('anything',a)) <> L
   then error "the recurrence contains elements that are not linear in %1", n
 fi:
 L := map(op, L):
 for i from 1 to nops(L) do
   r := subs(a(op(i,L))=a(op(i,L))*x^(d-op(i,L)+n), r):
 od:
 if cond<>'cond' then
   c := {}:
   for i from 1 to nops(cond) do
     tmp := op(i, cond): # tmp should have the form 'a(k) = cste'
     if not type(tmp,'`=`') then error "Invalid initial condition: %1", tmp: fi:
     L := selectremove(has, {op(tmp)}, a):
```

```
    if (nops(L[1]) <> 1) or (nops(L[2])<>1)
      then error "Invalid initial condition: %1", tmp:
    fi:
    tmp := op(1, L[1]): # tmp has the form 'a(k)'
    c := {op(c), tmp = op(1, L[2])*x^op(tmp)}:
  od:
  res := {r, op(c)}:
 else res := r:
 fi:
 res:
end proc:


#
# This procedure removes the conditions of the form a(k)=0 from the initial conditions of rec
# It returns a list L = [L1, L2, ...] where Li = [k, expr] representing the condition a(k)=expr.
# Moreover, it asserts that the Li are ordered by increasing k.
#
removeTrivialConditions := proc(rec, aofn)
 local a,n,i,L,tmp,c,cond,k:
 getname(aofn, a, n):
 if not type(rec, 'set') then
  error "%1 is not a recurrence with initial conditions", rec
 else
  L := selectremove(has, rec, n):
  cond := L[2]:
  if nops(cond)=0
    then error "%1 does not contain initial conditions", rec
  fi:
 fi:
 c := []:
 for i from 1 to nops(cond) do
  tmp := op(i, cond): # tmp should have the form 'a(k) = cste'
  if not type(tmp,`=`) then error
 "Invalid initial condition: %1", tmp: fi:
  L := selectremove(has, {op(tmp)}, a):
  if (nops(L[1]) <> 1) or (nops(L[2])<>1)
    then error "Invalid initial condition: %1", tmp:
  fi:
  if op(1, L[2])<>0 then c := [op(c), [op(op(1, L[1])), op(1, L[2])]]: fi:
 od:
 # We check that the conditions are ordered by increasing k.
 if (nops(c)=0) then return c: fi:
 k := c[1][1]:
 for i from 2 to nops(c) do
  if (c[i][1]<=k)
  then error "Unexpected error in removeTrivialConditions: the conditions are not correctly ordered (%1)\n", c
  else k := c[i][1]
```

```
  fi:
 od:
 c:
end proc:


#
# findFixpointOfDifferences: takes a set L of integer and returns the smallest set S
# containing L and such that for each i, S[i]-S[i-1] \in S
findFixpointOfDifferences := proc(L)
 local res, i:
 res := L:
 for i from 2 to nops(L) do
  res := { op(res), L[i]-L[i-1] }:
 od:
 if (res=L) then return res else return findFixpointOfDifferences(res) fi:
end proc:


#
# error_counter functions
 allows one to follow the accumulation of errors in each variable.
#   an error_counter is a list of the form [[var1, c1], [var2, c2], ... ]
#   where the vari are variable names and the ci indicate how many approximation errors
#   are accumulated in vari.
#

#
# This procedure initializes the counter associated with variable var to 1 (and creates it if needed.)
# It returns an up-to-date error_counter.
init_error_counter := proc (var, error_counter)
 local i, res:
 res  := error_counter:
 for i from 1 to nops(res) do
  if (res[i][1]=var)
  then res[i][2] := 1:
       return res:
  fi
 od:
 res := [op(res), [var, 1]]:
end:


#
# This procedure adds a given number to the counter associated with variable var.
# It returns an up-to-date error_counter.
add_to_error_counter := proc (var, n, error_counter)
 local i, res:
```

```
 res  := error_counter:
 for i from 1 to nops(res) do
   if (res[i][1]=var)
   then res[i][2] := res[i][2]+n:
        return res:
   fi
 od:

 res := [op(res), [var, n]]:
end proc:

#
# This procedure sets the value of the counter associated with variable var.
# It returns an up-to-date error_counter.
set_error_counter := proc(var, n, error_counter)
 local i,err:
 err  := error_counter:
 for i from 1 to nops(err) do
   if (err[i][1]=var)
   then err[i][2] := n:
        return err:
   fi
 od:
 err := [op(err), [var, n]]:
end proc:

#
# This procedure initializes the counter associated to the multiplication of var2 and var3,
# putting the result in variable var1.
# It returns an up-to-date error_counter.
error_counter_of_a_multiplication := proc (var1, var2, var3, error_counter)
 local i, res, c2, c3:
 c2 := 0: c3 := 0:
 for i from 1 to nops(error_counter) do
   if (error_counter[i][1]=var2) then c2 := error_counter[i][2] fi:
   if (error_counter[i][1]=var3) then c3 := error_counter[i][2] fi:
   if (error_counter[i][1]=var1)
   then
     res := [ op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter)])
 ]
   fi:
 od:
 if (res = 'res') then res := error_counter fi:
 res := [op(res), [var1, c2+c3+1]]:
end:

#
# Copies the error counter of var2 into var1
```

```
error_counter_on_copy := proc(var1, var2, error_counter)
 local i, err, c2:
 c2 := 0:
 for i from 1 to nops(error_counter) do
   if (error_counter[i][1] = var2) then c2 := error_counter[i][2] fi:
   if (error_counter[i][1] = var1)
   then
     err := [ op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter)]) ]
   fi:
 od:
 if (err = 'err') then err := error_counter fi:
 if (c2 <> 0) then err := [op(res), [var1, c2]] fi:
end proc:


#
# Returns the value of the error counter associated to a variable
find_in_error_counter := proc(var, error_counter)
 local i:
 for i from 1 to nops(error_counter) do
   if (error_counter[i][1] = var) then return error_counter[i][2] fi:
 od:
 return 0:
end proc:

#
# generate_multiply_rational(fd, var1, var2, r, error_counter, indent) generates code for performing
#
 var1 = var2*r in MPFR
#   fd is the file descriptor in which the code shall be produced.
#   var1 and var2 are strings representing variable names. r is a Maple rational number.
#   error_counter is an error_counter (as described above).
#   indent is an optional argument. It is a string used to correctly indent the code. It is prefixed to any
#   generated line. Hence, if indent="  ", the generated code will be indented by 2 spaces.
# An up-to-date error_counter is returned.
generate_multiply_rational := proc(fd, var1, var2, r, error_counter, indent:="")
 local p,q,err:
 err := error_counter:
 if (whattype(r)<>'fraction') and (whattype(r)<>'integer')
 then error "generate_multiply_rational used with non rational number %1", r: fi:
 if (abs(r)=1)
 then
   if (var1=var2)
   then
     if (r<>1) then fprintf(fd, "%sMPFR_CHANGE_SIGN (%s);\n", indent, var1) fi:
     return err:
   else
     if (r=1)
```

```
      then fprintf(fd, "%smpfr_set (%s, %s, MPFR_RNDN);\n", indent, var1,
 var2):
      else fprintf(fd, "%smpfr_neg (%s, %s, MPFR_RNDN);\n", indent, var1, var2):
    fi:
    return error_counter_on_copy(var1, var2, err):
  fi
 fi:
 # Now, r is a rational number different from 1.
 p := numer(r): q := denom(r):
 if (abs(p)<>1)
 then
  fprintf(fd, "%smpfr_mul_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p):
  err := error_counter_of_a_multiplication(var1, var2, "", err):
  if(q<>1)
  then
    fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var1, q):
    err := error_counter_of_a_multiplication(var1, var1, "", err):
  fi:
 else
  fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p*q):
  err := error_counter_of_a_multiplication(var1, var2, "", err):
 fi:
 return err:
end proc:


#
# generate_multiply_poly is the same as generate_multiply_rational but when r is a rational fraction.
# The fraction r must have the form p/q where p and q are polynomials with integer coefficients.
#
 Moreover, the gcd of the coefficients of p must be 1. Idem for q.
# The procedure returned a list [m, d, err] where m is the set of indices k such that
# a mpfr_mul_sik function is needed and idem for d with mpfr_div_sik.
# err is an up-to-date error counter.
generate_multiply_poly := proc(fd, var1, var2, r, error_counter, indent:="")
 local p,q,Lp,Lq,n,i,j,var, required_mulsi, required_divsi, err:
 err := error_counter:
 required_mulsi := {}:
 required_divsi := {}:
 p := numer(r): q := denom(r):
 Lp := my_factors(p): Lq := my_factors(q):
 if (Lp[1] <> 1)
  then error "generate_multiply_poly: an integer can be factored out of %1", p:
 fi:
 if (Lq[1] <> 1)
  then error "generate_multiply_poly: an integer can be factored out of %1", q:
 fi:
 Lp := Lp[2]: Lq := Lq[2]:
```

```
var := var2:
if (nops(Lp) <> 0)
then
  n := 0:
  for i from 1 to nops(Lp) do n := n + Lp[i][2] od:
  if (n=1)
  then
    fprintf(fd, "%smpfr_mul_si (%s, %s", indent, var1, var):
  else

   required_mulsi := { op(required_mulsi), n }:
    fprintf(fd, "%smpfr_mul_si%d (%s, %s", indent, n, var1, var):
  fi:
  for i from 1 to nops(Lp) do
    for j from 1 to Lp[i][2] do
      fprintf(fd, ", %a", Lp[i][1]):
    od:
  od:
  fprintf(fd, ", MPFR_RNDN);\n"):
  err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
  var := var1:
fi:
if (nops(Lq) <> 0)
then
  n := 0:
  for i from 1 to nops(Lq) do n := n + Lq[i][2] od:
  if (n=1)
  then
    fprintf(fd, "%smpfr_div_si (%s, %s", indent, var1, var):
  else
    required_divsi := { op(required_divsi), n }:
    fprintf(fd, "%smpfr_div_si%d (%s, %s", indent, n, var1, var)
  fi:
  for i from 1 to nops(Lq) do
    for j from 1 to Lq[i][2] do
      fprintf(fd, ", %a", Lq[i][1])
    od:
  od:
  fprintf(fd, ", MPFR_RNDN);\n"):
  err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
  var := var1:
fi:
if (var1 <> var) then
  fprintf(fd, "%smpfr_set
(%s, %s, MPFR_RNDN);\n", indent, var1, var):
  err := set_error_counter(var1, find_in_error_counter(var, err) , err):
fi:
return [required_mulsi, required_divsi, err]:
```

```
end proc:


#
# This function generates the code of a procedure mpfr_mul_uin or mpfr_div_uin
#
generate_muldivsin := proc(op, n)
 local i, var:
 if ((op <> "mul") and (op <> "div"))
   then error "Invalid argument to generate_muldivuin (%1). Must be 'mul' or 'div'", op
 fi:
 if (whattype(n) <> 'integer')
 then error "Invalid argument to generate_muldivuin (%1). Must be an integer.", n
 fi:

 if (op="mul") then var := "MUL" else var := "DIV" fi:

 printf("__MPFR_DECLSPEC void mpfr_div_si%d _MPFR_PROTO((mpfr_ptr, mpfr_srcptr,\n", n):
 for i from n to 2 by -2 do
   printf("                                long int, long int,\n"):
 od:
 if (i=1)
 then
   printf("                                long int, mpfr_rnd_t));\n"):
 else
   printf("
                mpfr_rnd_t));\n")
 fi:

 printf("\n\n\n"):
 printf("void\n"):
 printf("mpfr_%s_si%d (mpfr_ptr y, mpfr_srcptr x,\n", op, n):
 for i from n to 2 by -2 do
   printf("             long int v%d, long int v%d,\n", n-i+1, n-i+2):
 od:
 if (i=1)
 then
   printf("             long int v%d, mpfr_rnd_t mode)\n", n):
 else
   printf("             mpfr_rnd_t mode)\n")
 fi:
 printf("{\n"):
 printf("  long int acc = v1;\n"):
 printf("  mpfr_set (y, x, mode);\n"):
  for i from 2 to n do
   printf("  MPFR_ACC_OR_%s (v%d);\n", var, i):
 od:
 printf("  mpfr_%s_si (y, y, acc, mode);\n", op):
```

```
 printf("}\n"):
 return:
end proc:
# convert from Gonnet's FPAccuracy data sets to mpfr format
# http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z

# 1 - cut the lines from (say) C/acos.c, remove the 3rd (eps) field,
#     replace the commata ',' by spaces, and remove the final '};'
#     (hint: cut -d" " -f1,2,4,5 /tmp/acos.c > /tmp/acos2.c)
# 2 - edit the infile and outfile lines below, and run
#     maple -q < gonnet.mpl

infile := "/tmp/acos2.c":
outfile := "acos":

###################### don't edit below this line ############################

foo := proc(arg_m, val_m, arg_e, val_e, fp)
  fprintf (fp, "53 53 n ", 53);
  to_hex(arg_m, arg_e, fp);
  fprintf (fp, " ");
  # warning: Gonnet stores -val_e
  to_hex(val_m, -val_e, fp);
  fprintf (fp, "\n");
end:

to_hex := proc(m, e, fp)
  if m<0 then fprintf (fp, "-") fi;
  fprintf (fp, "0x%sp%d", convert(abs(m),hex), e);
end:

copyright := proc(fp)
  fprintf (fp, "# This file was generated from the FPAccuracy package\n#
http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z:\n#
 Copyright (C) Gaston H. Gonnet\n# This program is free software; you can redistribute it and/or\n# modify it under
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should have received a copy of the GNU General Public License\n# along with this program; if not, write to the Free
Software\n# Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA  02111-1307, USA.\n")
end:

fp := fopen (outfile, WRITE):

l := readdata(infile, integer, 4):
copyright(fp):
for e in l do foo(op(e), fp) od:
```

```
fclose (fp);

quit;
```

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read("metaMPFR_common.mpl"):

FUNCTION_SERIES := 0:
FUNCTION_SERIES_RATIONAL := %+1:
CONSTANT_SERIES := %+1:

##
######################### We can now generate the code #########################
##

```
# This procedure generate code for a straightforward evaluation of the series
# corresponding to a recurrence.
#   rec is a recurrence with inital conditions
#   type can take three values, depending on which series should be evaluated:
#     FUNCTION_SERIES -> produces code for evaluating sum( a(i)*x^i )
#     FUNCTION_SERIES_RATIONAL -> produces code for evaluating sum( a(i)*(p/q)^i )
#     CONSTANT_SERIES -> produces code for evaluating sum( a(i) )
#   name is the name the should be given to the produced procedure.
#   fofx is an optional parameter. It is the function being implemented.
#     -> if provided, this argument will be used to (heuristically)
 find the limits
#       of the function at +/-oo and find its asymptotical behavior.
#   *IMPORTANT NOTE*: it must be a function of the variable 'x'.
#                     Moreover, neither _f nor x shall be assigned at the time of
#                     calling the function
#
generateStraightforwardAlgo := proc(rec, aofn, type, name, filename, fofx := _f(x))
 local a, b, n, fd, init_cond, nc, d, exponents, formalRec, c, s1, s2, p, q, hardconstant, f0, i0, ri0, i, j, var, var1, var2,
var3, guard_bits, required_mulsi, required_divsi, temp, error_counter, error_in_loop, maxofti, additional_error:

 getname(aofn, a, n):

 required_mulsi := {}:
 required_divsi := {}:
 fd := fopen(filename, WRITE):

 # We check that we have a recurrence of the form a(n+d)=r(n)*a(n)
 # and we extract its canonical form:
 #    a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)
 #
 formalRec := checkOneTermRecurrence(rec, a(n)):
 decomposeOneTermRecurrence(formalRec, c,
 s1, s2, p, q):
 d := formalRec:-order:

 # We keep only non-trivial inital conditions
 init_cond := removeTrivialConditions(rec, a(n));
 nc := nops(init_cond):
 exponents := {1, d}:
 for i from 1 to nc do
   exponents := { op(exponents), init_cond[i][1] }
 od:
 exponents := findFixpointOfDifferences(exponents):
 exponents := exponents minus {0}:

 error_counter := []:

 fprintf(fd, "/* Evaluation by a straightforward algorithm */\n"):
```

```
fprintf(fd, "/* Code automatically generated by metaMPFR. */\n"):

fprintf(fd, "static int\n"):
if (type=FUNCTION_SERIES)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_srcptr x, mpfr_rnd_t rnd)\n", name):
elif (type=FUNCTION_SERIES_RATIONAL)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, int u, int v, mpfr_rnd_t rnd)\n", name):
elif (type=CONSTANT_SERIES)
  then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_rnd_t rnd)\n", name):
fi:
fprintf(fd, "{\n"):


#########################################################
####################
Declarations ####################
#########################################################

fprintf(fd, "  MPFR_ZIV_DECL (loop);\n"):
fprintf(fd, "  MPFR_SAVE_EXPO_DECL (expo);\n"):
fprintf(fd, "  mpfr_prec_t wprec;             /* working precision */\n"):
fprintf(fd, "  mpfr_prec_t prec;              /* target precision */\n"):
fprintf(fd, "  mpfr_prec_t err;               /* used to estimate the evaluation error */\n"):
fprintf(fd, "  mpfr_prec_t correctBits;       /* estimates the number of correct bits*/\n"):
fprintf(fd, "  unsigned long int k;\n"):
fprintf(fd, "  unsigned long int conditionNumber;        /* condition number of the series */\n"):
fprintf(fd, "  unsigned assumed_exponent;     /* used as a lowerbound of -EXP(f(x)) */\n"):
fprintf(fd, "  int r;                         /* returned ternary value */\n"):
fprintf(fd, "  mpfr_t s;                      /* used to store the partial sum */\n"):

if (whattype(c) = 'fraction') or (whattype(c) = 'integer')
   then hardconstant := 0
  else hardconstant := 1
fi:
if (type=FUNCTION_SERIES) then hardconstant := 1 fi:

if (hardconstant=1)
then
  if (type=CONSTANT_SERIES)
    then fprintf(fd, "  mpfr_t x%d;                    /* used to store %a */\n", d, c):
  elif (type=FUNCTION_SERIES_RATIONAL)
    then fprintf(fd, "  mpfr_t x%d;                    /* used to store %a */\n", d, c*(u/v)^d):
  elif (type=FUNCTION_SERIES)
    then fprintf(fd, "  mpfr_t x%d;                    /* used to store %a */\n", d, c*x^d):
  fi:
fi:

if (type=FUNCTION_SERIES)
```

```
then
  fprintf(fd, "  mpfr_t tmp;\n"):
  if (nops(exponents)-1 >= 1) then fprintf(fd, "  mpfr_t ") fi:
  for i from 1 to nops(exponents)-1 do
    fprintf(fd, "x%d", exponents[i]):
    if (i<nops(exponents)-1) then fprintf(fd, ", ") else fprintf(fd, ";                    /* used to store x^i */\n") fi
  od:
fi:

fprintf(fd, "  mpfr_t ");
for i from 1 to nc do
  fprintf(fd, "tip%d", init_cond[i][1]):
   if (i<nc) then fprintf(fd, ", ") else fprintf(fd, "; /* used to store successive values of t_i */\n") fi:
od:
fprintf(fd, "  int "):
for i from 1 to nc do
  fprintf(fd, "test%d", init_cond[i][1]):
  if (i<nc) then fprintf(fd, ", ") else fprintf(fd, ";\n") fi:
od:
fprintf(fd, "  int global_test;              /* used to test when the sum can be stopped */"):

fprintf(fd, "\n"):
fprintf(fd, "  /* Logging */\n"):
if (type=FUNCTION_SERIES)
  then fprintf(fd, "  MPFR_LOG_FUNC ( (\"x[%%#R]=%%R rnd=%%d\", x, x, rnd), (\"res[%%#R]=%%R\", res,
res) );\n\n")
elif (type=FUNCTION_SERIES_RATIONAL)
  then fprintf(fd, "  MPFR_LOG_FUNC ( (\"x=u/v with u=%%d and v=%%d, rnd=%%d\", u, v, rnd),
(\"res[%%#R]=%%R\", res, res) );\n\n")
else fprintf(fd, "  MPFR_LOG_FUNC ( (\"rnd=%%d\", rnd), (\"res[%%#R]=%%R\", res, res) );\n\n")
fi:


########################################################
#################### Special cases ####################
########################################################

 if ( (type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL) )
then
  fprintf(fd, "  /* Special cases */\n"):

  if (type=FUNCTION_SERIES)
    then fprintf(fd, "  if (MPFR_UNLIKELY (MPFR_IS_NAN (x)))\n")
    else fprintf(fd, "  if (MPFR_UNLIKELY (v==0))\n")
  fi:
  fprintf(fd, "    {\n"):
  fprintf(fd, "      MPFR_SET_NAN (res);\n"):
  fprintf(fd, "      MPFR_RET_NAN;\n"):
```

```
  fprintf(fd, "    }\n"):

  if (init_cond[1][1] > 0) then f0 := 0 else f0 := init_cond[1][2] fi:
  if (type=FUNCTION_SERIES)
   then fprintf(fd, "  if (MPFR_UNLIKELY (MPFR_IS_ZERO (x)))\n")
   else fprintf(fd, "  if (MPFR_UNLIKELY (u==0))\n")
  fi:
  if (whattype(f0) = 'integer')
  then
    fprintf(fd, "    {\n"):
    fprintf(fd, "      return mpfr_set_si (res, %a, rnd);\n", f0):
    fprintf(fd, "    }\n")
  else
    printf("You need to provide a function mpfr_%a0(mpfr_t, mpfr_rnd_t) that evaluates %a with correct
rounding\n",
 name, f0):
    fprintf(fd, "    {\n"):
    fprintf(fd, "      return mpfr_%a0 (res, rnd);\n", name):
    fprintf(fd, "    }\n")
  fi:

  if (type=FUNCTION_SERIES)
  then
    fprintf(fd, "  if (MPFR_UNLIKELY (MPFR_IS_INF (x)))\n"):
    fprintf(fd, "    {\n"):
    for i from -1 to 1 by 2 do  # Trick to handle both -oo and +oo
      if (i<0)
       then fprintf(fd, "      if (MPFR_IS_NEG (x))\n"):
       else fprintf(fd, "      else\n")
      fi:
      fprintf(fd, "        {\n"):
      if (i<0) then f0 := "m" else f0 := "p" fi:
      if (fofx <> _f(x))
      then
        f0 := limit(fofx, x=i*infinity):
        if (whattype(f0)='integer')
        then fprintf(fd, "          return mpfr_set_si (res, %a, rnd);\n", f0):
        elif (f0 = infinity) or (f0 = -infinity)
        then
          fprintf(fd, "          MPFR_SET_INF(res);\n"):
          if (f0>0)
          then fprintf(fd, "          MPFR_SET_POS(res);\n")
          else fprintf(fd,
"          MPFR_SET_NEG(res);\n")
          fi:
          fprintf(fd, "          MPFR_RET(0);\n"):
        else
          if (i<0) then f0 := "m" else f0 := "p" fi:
```

```
      fi:
    fi:
    if ((f0 = "p") or (f0 = "m"))
    then
      printf("You need to provide a function mpfr_%a%sinf(mpfr_t, mpfr_rnd_t) that evaluates lim(f(x), x=", name,
f0):
      if (f0 = "m") then printf("-") fi:
      printf("inf) with correct rounding.\n"):
      fprintf(fd, "          return mpfr_%a%sinf (res, rnd);\n", name, f0)
    fi:
    fprintf(fd, "        }\n")
  od:
  fprintf(fd, "    }\n")
 fi:
fi:


#########################################################
################## Precomputations ##################
#########################################################

fprintf(fd, "\n"):
fprintf(fd, "  /* Save current exponents range */\n"):
fprintf(fd, "  MPFR_SAVE_EXPO_MARK (expo);\n\n"):

if ( (type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL)
)
then  fprintf(fd, "  /* FIXME: special case for large values of |x| ? */\n\n")
fi:

# Note : prec is the value such that we will try to compute an approximation
# with relative error smaller than 2^(1-prec).
# Several things may happen:
#   1) We do not achieve the intended error: this is because we badly estimated the exponent of the result
#   2) We achieve the error, but it is not sufficient to decide correct rounding (Ziv's bad case)
# Against 1), we can try to make our estimate of the exponent better with any heuristic.
# Against 2), we can consider more guard bits. 11 guard bits seem a good value for the beginning
#   (statistically, we expect to fail in less than 0.1 % of the cases)
# wprec is the precision used during the computation, in order to ensure the final relative error 2^(1-prec)
#
fprintf(fd, "  /* We begin with 11 guard bits */\n"):
fprintf(fd, "  prec = MPFR_PREC (res) + 11;\n"):
fprintf(fd, "  MPFR_ZIV_INIT
(loop, prec);\n"):

# TODO: the value here can be chosen completely heursitically. We could do something much better
# when fofx is known by using asympt(fofx, x, 1). A clean implementation appears to be complex though.
# We must catch errors if the development does not exist (e.g. AiryAi(-x));
```

```
 # We must find a separation after which the asymptotic behavior is valid (e.g. x>1)
 printf("The code contains a variable assumed_exponent arbitrarily set to 10. You can put any value heuristically
chosen. The closer it is to -log_2(|f(x)|), the better it is.\n"):
 fprintf(fd, "  assumed_exponent = 10; /* TIP: You can put any value heuristically chosen. The closer it is to -
log_2(|f(x)|), the better it is */\n"):

 # TODO: find a way of putting a rigorous value here.
 # This value *must* be rigorous: the safety of the implementation relies on it.
 # Precisely, we need to have sum(|a(i)*x^i|) <= 2^conditionNumber
 fprintf(fd, "  conditionNumber = xxx; /* FIXME: set a value such that
 sum(|a(i)*x^i|) <= 2^conditionNumber */\n"):
 printf("The code contains a variable conditionNumber that you must manually set to a suitable value, in order to
ensure that sum_{i=0}^{infinity} |a(i)*x^i| <= 2^conditionNumber\n"):
 fprintf(fd, "  wprec = prec + ERRORANALYSISPREC + conditionNumber + assumed_exponent;\n"):


 ########################################################
 ################## Initialisations ###################
 ########################################################

 if (hardconstant=1)
 then
   fprintf(fd, "  mpfr_init (x%d);\n", d):
 fi:
 if (type = FUNCTION_SERIES)
 then
   fprintf(fd, "  mpfr_init (tmp);\n"):
   for i from 1 to nops(exponents)-1 do
     fprintf(fd, "  mpfr_init (x%d);\n", exponents[i])
   od:
 fi:

 for i from 1 to nc do
   fprintf(fd, "  mpfr_init (tip%d);\n", init_cond[i][1])
 od:
 fprintf(fd, "  mpfr_init (s);\n\n"):


 ########################################################
 ########## Ziv' loop: setting the precision
 ##########
 ########################################################

 fprintf(fd, "  /* ZIV' loop */\n"):
 fprintf(fd, "  for (;;)\n"):
 fprintf(fd, "    {\n"):

 fprintf(fd, "      MPFR_LOG_MSG ((\"Working precision: %%d\\n\", wprec, 0));\n\n"):
```

```
if (hardconstant=1)
then
  fprintf(fd, "      mpfr_set_prec (x%d, wprec);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
  fprintf(fd, "      mpfr_set_prec (tmp, wprec);\n"):
  fprintf(fd, "      if(mpfr_get_prec (x) > wprec)\n"):
  fprintf(fd, "        mpfr_set_prec (x1, wprec);\n"):
  fprintf(fd, "      else\n"):
  fprintf(fd, "        mpfr_set_prec (x1, mpfr_get_prec (x));\n"):
  for i from 2 to nops(exponents)-1 do
    fprintf(fd, "      mpfr_set_prec (x%d, wprec);\n", exponents[i])
  od:
fi:

for i from 1 to nc do
  fprintf(fd, "      mpfr_set_prec (tip%d, wprec);\n", init_cond[i][1])
od:
fprintf(fd, "      mpfr_set_prec (s, wprec);\n\n"):


#########################################################
 ############ Ziv' loop: initial conditions ############
#########################################################

fprintf(fd, "      mpfr_set_ui (s, 0, MPFR_RNDN);\n"):

if (type = FUNCTION_SERIES)
then
  fprintf(fd, "      mpfr_set (x1, x, MPFR_RNDN);\n"):
  error_counter := init_error_counter("x1", error_counter):
  for i from 2 to nops(exponents) do
      fprintf(fd, "      mpfr_mul (x%d, x%d, x%d, MPFR_RNDN);\n", exponents[i], exponents[i-1], exponents[i]-
exponents[i-1]):
 var1 := sprintf("x%d", exponents[i]):
      var2 := sprintf("x%d", exponents[i-1]):
      var3 := sprintf("x%d", exponents[i]-exponents[i-1]):
 error_counter := error_counter_of_a_multiplication(var1, var2, var3, error_counter):
  od:
fi:

for i from 1 to nc do
  i0 := init_cond[i][1]:
  ri0 := init_cond[i][2]:  # We implement t_{i0} <- ri0
  if (whattype(ri0)='integer') or (whattype(ri0)='fraction')
  then
    if (type = FUNCTION_SERIES) and (i0 <> 0)
```

```
      then
        var
:=  sprintf("      mpfr_mul_si (tip%d, x%d, ", i0, i0):
        var1 := sprintf("tip%d", i0):
        var2 := sprintf("x%d", i0):
        error_counter := error_counter_of_a_multiplication(var1, var2, "", error_counter):
      else
        var := sprintf("      mpfr_set_si (tip%d, ", i0):
        var1 := sprintf("tip%d", i0):
        error_counter := init_error_counter(var1, error_counter):
    fi:
    fprintf(fd, "%s%d, MPFR_RNDN);\n", var, numer(ri0)):
    if (whattype(ri0)='fraction')
    then
      fprintf(fd, "      mpfr_div_si (tip%d, tip%d, %d, MPFR_RNDN);\n", i0, i0, denom(ri0)):
      var1 := sprintf("tip%d", i0):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    fi:
  else
    printf("You need to provide a function mpfr_%a%d (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, i0, ri0):
    fprintf(fd, "      mpfr_%a%d (tip%d, MPFR_RNDN);\n", name, i0, i0):
    var1 := sprintf("tip%d",
 i0):
    error_counter := init_error_counter(var1, error_counter):
    if (type = FUNCTION_SERIES) and (i0 <> 0)
    then
      fprintf(fd, "      mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, i0):
      var1 := sprintf("tip%d", i0):
      var2 := sprintf("x%d", i0):
      error_counter := error_counter_of_a_multiplication(var1, var1, var2, error_counter):
    fi:
  fi:

  if (type = FUNCTION_SERIES_RATIONAL) and (i0 <> 0)
  then
    var1 := sprintf("tip%d", i0):
    if (i0 = 1)
    then fprintf(fd, "      mpfr_mul_si (tip%d, tip%d, ", i0, i0):
    else
      required_mulsi := { op(required_mulsi), i0 }:
      fprintf(fd, "      mpfr_mul_si%d (tip%d, tip%d, ", i0, i0, i0):
    fi:
    for j from 1 to i0 do
      fprintf(fd, "u, "):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    od:
    fprintf(fd, "MPFR_RNDN);\n"):
```

```
    if (i0 = 1)
    then fprintf(fd, "      mpfr_div_si (tip%d,
 tip%d, ", i0, i0):
    else
      required_divsi := { op(required_divsi), i0 }:
      fprintf(fd, "      mpfr_div_si%d (tip%d, tip%d, ", i0, i0, i0):
    fi:
    for j from 1 to i0 do
      fprintf(fd, "v, "):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    od:
    fprintf(fd, "MPFR_RNDN);\n"):
  fi:

  fprintf(fd, "      mpfr_add (s, s, tip%d, MPFR_RNDN);\n\n", i0):
 od:

 if (whattype(c) = 'integer') or (whattype(c) = 'fraction')
 then
  if (type = FUNCTION_SERIES) and (c = -1)
  then
    fprintf(fd, "      MPFR_CHANGE_SIGN (x%d);\n", d):
  elif (type = FUNCTION_SERIES) and (c <> 1)
  then
    fprintf(fd, "      mpfr_mul_si (x%d, x%d, %d, MPFR_RNDN);\n", d, d, numer(c)):
    var1 := sprintf("x%d", d):
    error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    if (whattype(c) = 'fraction')
    then
      fprintf(fd, "      mpfr_div_si (x%d, x%d, %d, MPFR_RNDN);\n",
 d, d, denom(c)):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    fi:
  fi:
 else
  printf("You need to provide a function mpfr_%a_cste (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, c):
  if (type = CONSTANT_SERIES)
  then
    fprintf(fd, "      mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
    var1 := sprintf("x%d", d):
    error_counter := init_error_counter(var1, error_counter):
  elif (type = FUNCTION_SERIES) then
    fprintf(fd, "      mpfr_%a_cste (tmp, MPFR_RNDN);\n", name):
    error_counter := init_error_counter("tmp", error_counter):
    fprintf(fd, "      mpfr_mul (x%d, tmp, x%d, MPFR_RNDN);\n", d, d):
    var1 := sprintf("x%d", d):
    error_counter := error_counter_of_a_multiplication(var1, "tmp", var1, error_counter):
```

```
  elif (type = FUNCTION_SERIES_RATIONAL) then
    fprintf(fd, "      mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
    var1 := sprintf("x%d",
d):
    error_counter := init_error_counter(var1, error_counter):
    if (d = 1)
    then fprintf(fd, "      mpfr_mul_si (x%d, x%d, ", d, d):
    else
      required_mulsi := { op(required_mulsi), d }:
      fprintf(fd, "      mpfr_mul_si%d (x%d, x%d, ", d, d, d):
    fi:
    for j from 1 to d do
      fprintf(fd, "u, "):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    od:
    fprintf(fd, "MPFR_RNDN);\n"):
    var1 := sprintf("x%d", d):
    if (d = 1)
    then fprintf(fd, "      mpfr_div_si (x%d, x%d, ", d, d):
    else
      required_divsi := { op(required_divsi), d }:
      fprintf(fd, "      mpfr_div_si%d (x%d, x%d, ", d, d, d):
    fi:
    for j from 1 to d do
      fprintf(fd, "v, "):
      error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
    od:
    fprintf(fd, "MPFR_RNDN);\n"):
  fi:
fi:

#########################################################
#########
Ziv' loop: evaluation of the series ########
#########################################################

fprintf(fd, "\n"):
fprintf(fd, "      /* Evaluation of the series */\n"):
fprintf(fd, "      k = %d;\n", d):
fprintf(fd, "      for (;;)\n"):
fprintf(fd, "        {\n"):
if (init_cond[1][1] <> 0) then fprintf(fd, "          k += %d;\n", init_cond[1][1]) fi:

for i from 1 to nc do
  error_in_loop := 0:
  i0 := init_cond[i][1]:
  if (hardconstant = 1)
  then
```

```
    fprintf(fd, "          mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, d):
    var1 := sprintf("x%d", d):
    error_in_loop := error_in_loop + 1 + find_in_error_counter(var1, error_counter):
  else
    var := sprintf("tip%d", i0):
    temp := generate_multiply_rational(fd, var, var, c, [[var, error_in_loop]], "          "):
    error_in_loop := find_in_error_counter(var, temp):
    if (type = FUNCTION_SERIES_RATIONAL)
    then
      if (d=1)
      then
        fprintf(fd,
"          mpfr_mul_si (tip%d, tip%d, u, MPFR_RNDN);\n", i0, i0):
        fprintf(fd, "          mpfr_div_si (tip%d, tip%d, v, MPFR_RNDN);\n", i0, i0):
  error_in_loop := error_in_loop + 2:
      else
        required_mulsi := { op(required_mulsi), d }:
        fprintf(fd, "          mpfr_mul_si%d (tip%d, tip%d", d, i0, i0):
        for j from 1 to d do fprintf(fd, ", u") od:
        fprintf(fd, ", MPFR_RNDN);\n"):
  error_in_loop := error_in_loop + d:

        required_divsi := { op(required_divsi), d }:
        fprintf(fd, "          mpfr_div_si%d (tip%d, tip%d", d, i0, i0):
        for j from 1 to d do fprintf(fd, ", v") od:
        fprintf(fd, ", MPFR_RNDN);\n" ):
  error_in_loop := error_in_loop + d:
      fi
    fi
  fi:
  var := sprintf("tip%d", i0):

  temp := generate_multiply_poly(fd, var, var, subs(n=k-d, p/q), [[var, error_in_loop]], "          "):
  required_mulsi := { op(required_mulsi), op(temp[1]) }:
  required_divsi := { op(required_divsi),
op(temp[2]) }:
  error_in_loop := find_in_error_counter(var, temp[3]):
  temp := generate_multiply_poly(fd, "tmp", var, subs(n=k, s2/s1), [[var, error_in_loop]], "          "):
  required_mulsi := { op(required_mulsi), op(temp[1]) }:
  required_divsi := { op(required_divsi), op(temp[2]) }:

  fprintf(fd, "          mpfr_add (s, s, tmp, MPFR_RNDN);\n"):

  if (i<nc) then fprintf(fd, "\n          k += %d;\n", init_cond[i+1][1]-i0)
  else  fprintf(fd, "\n          k += %d;\n", d-i0)
  fi:
od:
```

```
#########################################################
################### Error analysis ######################
#########################################################

maxofti := 0: # store the maximum of the error counters of the initial conditions
for i from 1 to nc do
  var := sprintf("tip%d", init_cond[i][1]):
  if find_in_error_counter(var, error_counter) > maxofti
    then maxofti := find_in_error_counter(var, error_counter):
  fi:
od:
additional_error
:= find_in_error_counter("tmp", temp[3]) - error_in_loop:


#########################################################
#### Ziv' loop: stopping criterion for the series ####
#########################################################

# The first neglected term is tk, so the remainder is made by
# tk + t(k+d) + t(k+2d).... and the corresponding series
# beginning with t(k+1), t(k+2), etc. up to t(k+d-1).
#
# We have t(k0+d) = c*s1(k0)/s1(k0+d) * s2(k0+d)/s2(k0)* p(k0)/q(k0) * x^d t(k0)
# (where x=u/v or x=1 in cases of rational series or constant series)
# So it suffices that:
# forall k0>=k-d, |c * s1(k0)/s1(k0+d) * s2(k0+d)/s2(k0) * p(k0)/q(k0) * x^d| <= 1/2     (1)
#
# If this is true, |tk| = |c*s1(k-d)/s1(k) * s2(k)/s2(k-d)* p(k-d)/q(k-d) * x^d t(k-d)| <= t(k-d)/2
# This is also true for larger values of k, so we can bound |tk + t(k+d) + t(k+2d) + ...| by |t(k-d)|.
# And the same holds for |t(k+1) + ...|, |t(k+2) + ...|, etc. up to |t(k+d-1)+...|.
 #
# global_test depends on k and we must satisfy:
#  "if (global_test) then (1) holds".
#
# the total remainder is bounded by 2*nc*tk.

 fprintf(fd, "          global_test = xxx; /* FIXME: set the value in order to ensure that, whenever global_test is true,
we have: forall k'>=k, |r(k')*x^d| <= 1/2, where r is the fraction such that a(n)=r(n)a(n-d)*/\n"):
 printf("The code contains a variable global_test that you must manually set to a suitable value, in order to ensure
that when global_test is true, the following holds:\n"):
 printf("        forall k'>=k, |r(k')*x^d| <= 1/2, where r is the fraction such that a(n)=r(n)a(n-d)\n"):
 guard_bits := 1+1+ceil(log[2](nc)):
 for i from 1 to nc do
   i0 := init_cond[i][1]:
   fprintf(fd, "          test%d = ( (!MPFR_IS_ZERO(s))\n", i0):
   fprintf(fd, "                    && ( MPFR_IS_ZERO(tip%d)\n", i0):
```

```
  fprintf(fd, "                    || (MPFR_EXP(tip%d) + (mp_exp_t)prec + %d <= MPFR_EXP(s))\n", i0, guard_bits):
   fprintf(fd, "                     )\n"):
  fprintf(fd, "                 );\n"):
od:
fprintf(fd, "         if (");
for i from 1 to nc do
  fprintf(fd, "test%d && ", init_cond[i][1]):
od:
fprintf(fd, "global_test)\n"):
fprintf(fd, "           break;\n"):
fprintf(fd, "       }\n\n"):


#########################################################
############## Ziv' loop: testing final ##############
#########################################################

fprintf(fd, "     MPFR_LOG_MSG ((\"Truncation rank: %%lu\\n\", k));\n\n"):
fprintf(fd, "     err = ERRORANALYSISK + conditionNumber - MPFR_GET_EXP (s);\n\n"):
fprintf(fd, "     /* err is the number of bits lost due to the evaluation error */\n"):
fprintf(fd, "     /* wprec-(prec+1): number of bits lost due to the approximation error */\n"):
fprintf(fd, "     MPFR_LOG_MSG ((\"Roundoff error: %%Pu\\n\", err));\n"):
fprintf(fd, "     MPFR_LOG_MSG ((\"Approxim error: %%Pu\\n\", wprec-prec-1));\n\n"):
 fprintf(fd, "     if (wprec < err+1)\n"):
fprintf(fd, "       correct_bits=0;\n"):
fprintf(fd, "     else\n"):
fprintf(fd, "       {\n"):
fprintf(fd, "         if (wprec < err+prec+1)\n"):
fprintf(fd, "           correct_bits =  wprec - err - 1;\n"):
fprintf(fd, "         else\n"):
fprintf(fd, "           correct_bits = prec;\n"):
fprintf(fd, "       }\n\n"):
fprintf(fd, "     if (MPFR_LIKELY (MPFR_CAN_ROUND (s, correct_bits, MPFR_PREC (y), rnd)))\n"):
fprintf(fd, "       break;\n\n"):

fprintf(fd, "     if (correct_bits == 0)\n"):
fprintf(fd, "       {\n"):
fprintf(fd, "         assumed_exponent *= 2;\n"):
fprintf(fd, "         MPFR_LOG_MSG ((\"Not a single bit correct (assumed_exponent=%%lu)\\n\",\n"):
fprintf(fd, "                       assumed_exponent));\n"):
fprintf(fd, "         wprec = prec + ERRORANALYSISK + conditionNumber + assumed_exponent;\n"):
fprintf(fd, "       }\n"):
fprintf(fd, "     else\n"):
fprintf(fd,
"       {\n"):
fprintf(fd, "         if (correct_bits < prec)\n"):
fprintf(fd, "           { /* The precision was badly chosen */\n"):
fprintf(fd, "             MPFR_LOG_MSG ((\"Bad assumption on the exponent of %s(x)\", 0));\n", name):
```

```
fprintf(fd, "              MPFR_LOG_MSG ((\" (E=%%ld)\\n\", (long) MPFR_GET_EXP (s)));\n"):
fprintf(fd, "              wprec = prec + err + 1;\n"):
fprintf(fd, "            }\n"):
fprintf(fd, "          else\n"):
fprintf(fd, "            { /* We are really in a bad case of the TMD */\n"):
fprintf(fd, "              MPFR_ZIV_NEXT (loop, prec);\n\n"):

fprintf(fd, "              /* We update wprec */\n"):
fprintf(fd, "              /* We assume that K will not be multiplied by more than 4 */\n"):
fprintf(fd, "              wprec = prec + ERRORANALYSIS4K + conditionNumber\n"):
fprintf(fd, "                - MPFR_GET_EXP (s);\n"):
fprintf(fd, "            }\n"):
fprintf(fd, "        }\n\n"):

fprintf(fd, "    } /* End
of ZIV loop */\n\n"):
fprintf(fd, "  MPFR_ZIV_FREE (loop);\n\n"):
fprintf(fd, "  r = mpfr_set (res, s, rnd);\n\n"):


#########################################################
################ Clearing everything ####################
#########################################################

fprintf(fd, "  mpfr_clear (s);\n"):
if (hardconstant=1)
then
  fprintf(fd, "  mpfr_clear (x%d);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
  fprintf(fd, "  mpfr_clear (tmp);\n"):
  for i from 1 to nops(exponents)-1 do
    fprintf(fd, "  mpfr_clear (x%d);\n", exponents[i]):
  od:
fi:

for i from 1 to nc do
  fprintf(fd, "  mpfr_clear (tip%d);\n", init_cond[i][1]):
od:

fprintf(fd, "\n"):
fprintf(fd, "  MPFR_SAVE_EXPO_FREE (expo);\n"):
fprintf(fd, "  return mpfr_check_range (res, r, rnd);\n"):
fprintf(fd, "}\n"):

fclose(fd):
```

```
for i from 1 to nops(required_mulsi) do
  printf("You need to provide a mpfr_mul_si%d function.\n", required_mulsi[i]):
  printf("
 -> This can be achieved by a call to generate_muldivsin(\"mul\", %d):\n",  required_mulsi[i]):
od:
for i from 1 to nops(required_divsi) do
  printf("You need to provide a mpfr_div_si%d function.\n", required_divsi[i]):
  printf("  -> This can be achieved by a call to generate_muldivsin(\"div\", %d):\n",  required_divsi[i]):
od:


#########################################################
################## Error analysis ####################
#########################################################

printf("\n\n"):
printf("Before the loop, we have "):
for i from 1 to nc do
  var := sprintf("tip%d", init_cond[i][1]):
  printf("%s {%d}", var, find_in_error_counter(var, error_counter)):
  if (i <> nc) then printf(", ") else printf("\n") fi:
od:
printf("Each step of the loop adds another {%d}\n", error_in_loop):
if (additional_error <> 0)
then printf("Moreover, the multiplication by %a adds another {%d} to each term before it is summed.\n", subs(n=k,
s2/s1), additional_error)
fi:
printf("Finally, we have s = sum_(i=0)^(k-1) ( ti{%d + %dk} )\n", maxofti + additional_error + 1 - error_in_loop,
error_in_loop):
printf("We bound it by {(k+%d)*2^(%d)}\n", ceil( (maxofti + additional_error + 1 - error_in_loop)/error_in_loop),
ceil(log[2](error_in_loop))):

a := ceil( (maxofti + additional_error + 1 - error_in_loop)/error_in_loop):
b := ceil(log[2](error_in_loop)):

if (a > 0)
  then var := sprintf("MPFR_INT_CEIL_LOG2 (prec + %d)", a)
  elif (a=0) then  var := sprintf("MPFR_INT_CEIL_LOG2 (prec)")
  else sprintf("MPFR_INT_CEIL_LOG2 (prec - %d)", -a)
fi:
if (b > 0) then var := sprintf("%s + %d", var, b+2) fi:
var := sprintf("sed -n -i 's/ERRORANALYSISPREC/%s/g;p' %s", var, filename):
system(var):

if (a > 0)
  then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
  elif (a=0) then  var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
  else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
```

```
 fi:
 if (b > 0) then var := sprintf("%s
 + %d", var, b+2) fi:
 var := sprintf("sed -n -i 's/ERRORANALYSISK/%s/g;p' %s", var, filename):
 system(var):

 if (a > 0)
   then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
   elif (a=0) then  var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
   else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
 fi:
 var := sprintf("%s + %d", var, b+4):
 var := sprintf("sed -n -i 's/ERRORANALYSIS4K/%s/g;p' %s", var, filename):
 system(var):

end proc:
read ("metaMPFR_straightforwardAlgo.mpl"):

f := AiryAi(x):
deq := holexprtodiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

f := erf(x):
deq := holexprtodiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*(6*n+2)*(6*n+3)*(6*n+4)*(6*n+5)*(6*n+6)*a(n)/(
(n+1)^3*(3*n+1)*(3*n+2)*(3*n+3)*12288000 ), a(0)=1 }:
name_of_function := alpha:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/**************************
 Implmentation de %s ****************************/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):


rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1 }:
name_of_function := test0a:
name_of_file := sprintf("%a.c", name_of_function):
```

```
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi }:
name_of_function := test1a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1 }:
name_of_function := test2a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/**************************
 Implmentation de %s ****************************/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi }:
name_of_function := test3a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=2 }:
name_of_function := test4a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0}:
name_of_function := test5a:
name_of_file
 := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0}:
```

```
name_of_function := test7a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/(
 (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES,
 name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(4)=1, a(6)=2  }:
name_of_function := test11a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):


rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1 }:
name_of_function := test0b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi }:
name_of_function := test1b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
```

```
name_of_file):
generateStraightforwardAlgo(rec,
 a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1 }:
name_of_function := test2b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi }:
name_of_function := test3b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=2 }:
name_of_function := test4b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
 name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0}:
name_of_function := test5b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0}:
name_of_function := test7b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/**************************
 Implmentation de %s ****************************/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8b:
```

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name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10b:
name_of_file
 := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(4)=1, a(6)=2  }:
name_of_function := test11b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):


rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1 }:
name_of_function := test0c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/( (n+1)^3
 ), a(0)=Pi }:
name_of_function := test1c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1 }:
name_of_function := test2c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ******************************/\n",
name_of_file):
```

```
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi }:
name_of_function := test3c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function,
 name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=2 }:
name_of_function := test4c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=Pi, a(1)=0}:
name_of_function := test5c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=1, a(1)=Pi }:
name_of_function := test6c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec,
 a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(1)=0}:
name_of_function := test7c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************** Implmentation de %s ****************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/( (n+1)^3 ), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9c:
```

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name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/*************************
 Implmentation de %s ******************************/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************* Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/( (n+2) ), a(0)=Pi, a(4)=1, a(6)=2  }:
name_of_function := test11c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/************************* Implmentation de %s ******************************/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):
```

1.319 packaging 24.1

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1.320 gmp 6.2.1+dfsg-1+deb11u1

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This gmp package was built for Debian by

Steve M. Robbins <smr@debian.org>
Philipp Matthias Hahn <pmhahn@debian.org>

from sources obtained at http://gmplib.org/ .

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1.321 dav1d 0.7.1-3+deb11u1

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1.322 python 3.9.2-1+deb11u2

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

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

Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called
 ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of

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All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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The `socket' module uses the functions, `getaddrinfo', and `getnameinfo',
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```

src/authdes_prot.c
src/authunix_prot.c
src/bindresvport.c
src/clnt_bcast.c
src/clnt_perror.c
src/clnt_raw.c
src/clnt_simple.c
src/clnt_vc.c
src/debug.c
src/debug.h
src/des_crypt.c
src/getnetconfig.c
src/getnetpath.c
src/getrpcent.c
src/getrpcport.c
src/key_call.c
src/key_prot_xdr.c
src/pmap_clnt.c
src/pmap_getmaps.c
src/pmap_getport.c
src/pmap_prot.c
src/pmap_prot2.c
src/pmap_rmt.c
src/rpc_callmsg.c
src/rpc_com.h
src/rpc_commondata.c
src/rpc_dtablesize.c
src/rpc_generic.c
src/rpc_prot.c
src/rpc_soc.c
src/rpcb_prot.c
src/rpcb_st_xdr.c
src/rtime.c
src/svc_auth.c
src/svc_auth_des.c
src/svc_auth_unix.c
src/svc_dg.c
src/svc_generic.c
src/svc_raw.c
src/svc_simple.c
src/svc_vc.c
src/xdr_array.c
src/xdr_float.c
src/xdr_mem.c
src/xdr_rec.c
src/xdr_reference.c
src/xdr_sizeof.c
src/xdr_stdio.c

tirpc/rpc/auth_des.h
tirpc/rpc/auth_unix.h
tirpc/rpc/des_crypt.h
tirpc/rpc/pmap_clnt.h
tirpc/rpc/pmap_prot.h
tirpc/rpc/pmap_rmt.h
tirpc/rpc/raw.h
tirpc/rpc/rpc_com.h

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man/rpc_gss_get_versions.3t
man/rpc_gss_getcred.3t
man/rpc_gss_is_installed.3t
man/rpc_gss_max_data_length.3t
man/rpc_gss_mech_to_oid.3t
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src/authgss_prot.c
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1.331 backports-tarfile 1.2.0

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1.332 tdb 1.46.2

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1.333 importlib-metadata 4.11.1

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1.334 libxml2 2.9.10+dfsg-6.7+deb11u5

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libxml2
Source: ftp://xmlsoft.org/libxml2/
Files-Excluded:
result
test
Comment:
Bug about the removal of the above directories: https://bugs.debian.org/331534

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1.335 python-certifi 2024.08.30

1.335.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.336 rtmpdump 2.4+20151223.gitfa8646d.1-2+b2

1.336.1 Available under license :

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<one line to give the program's name and a brief idea of what it does.>
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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) 19xx 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
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commands you use may be called something other than `show w' and `show
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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

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c)

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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) 19xx 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
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 Of course, the
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 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

if ( $Config{usecrosscompile} ) {
```

```
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{
```

```
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}
```

1.338 tomli 2.0.1

1.338.1 Available under license :

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1.339 libgdbm-compat4 1.19-2

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 "Copyright" also means copyright-like laws that apply to other kinds of
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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.

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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
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1. Source Code.

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

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

The "System Libraries" of an executable work include anything,
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	

Objective C++ gobjc++-10
Modula-2 gm2-10 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg		libstdc++6-10-pic
D	libphobos-10-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-10-base Base files common to all compilers
gcc-10-soft-float Software floating point (ARM only)
gcc-10-source The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10 GNAT version library

C:
cpp-10, cpp-10-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libitm
- libssp
- libstdc++-v3
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- The libgnat-10 Ada support library and libgnat-util10
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- Various config files in gcc/config/ used in runtime libraries.
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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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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    [This is the first released version of the library GPL. It is
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Preamble
========

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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

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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.

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for copying, distribution and
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to ensure that, in the event an application does not supply
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performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots
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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 compile or
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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
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changes the contents of definitions files in the Library will
not necessarily be able to recompile the application to use
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1.347 openssh-client 8.4p1-5+deb11u3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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  iconv (Charset Conversion Library) v2.0

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble
========

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1.350 libpcre2-dev 10.36-2+deb11u1

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1.351 libpwquality1 1.4.4-1

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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

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6. As an exception to the Sections above, you may also combine or
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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
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specified in Subsection 6a, above, for a charge no more
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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
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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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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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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

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

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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
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Finally, every program is threatened constantly by software patents.

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TERMS AND CONDITIONS

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1. Source Code.

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

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to 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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A compilation of a covered work with other separate and independent
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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```
/*************************************************************************
*
*  grwin32.h  graphics driver for Win32 platform (header)
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```
/*****************************************************************
*
*  grmac.c  graphics driver for MacOS platform.
*
*  This is the driver for displaying inside a window under MacOS,
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*
*  Largely written by Just van Rossum, but derived from grwin32.c.
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```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
```

```
*  This code was written from scratch without looking at any other
*  implementation.
*
*  This code is hereby expressly placed in the public domain.
*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
*
*  Last update 2019-06-10.
*/
```

Found in path(s):
* /freetype-2-10-4-dfsg-orig-ft2demos-1-tar-xz/ft2demos-2.10.4/src/mlgetopt.c
No license file was found, but licenses were detected in source scan.

```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*
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*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
*/
```

Found in path(s):
* /freetype-2-10-4-dfsg-orig-ft2demos-1-tar-xz/ft2demos-2.10.4/src/mlgetopt.h
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*
*  grbeos.c  graphics driver for BeOS platform.            0.1
*
*  This is the driver for displaying inside a window under BeOS,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Michael Pfeiffer.
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*
***************************************************************************/
```

Found in path(s):
* /freetype-2-10-4-dfsg-orig-ft2demos-1-tar-xz/ft2demos-2.10.4/graph/beos/grbeos.cpp

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This package contains example programs for the FreeType 2 library.

WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING

The Makefile contained in this directory assume that the FreeType 2
library sources are located in `../freetype2'. If you downloaded
one of the stable FreeType 2 source packages from our server, you
most probably have to rename its directory, for example:

mv freetype-2.10.4 freetype2 on Unix
rename freetype-2.10.4 freetype2 on Windows

WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING WARNING

First compile the FreeType 2 library, then say `make'. However, you
must rename the directory of the FreeType 2 library to `freetype2'
(or create a symlink) before doing this.

Note that the demonstration programs include a tiny graphics
sub-system that includes `drivers' to display Windows on Win32, X11,
BeOS, Mac, and
OS/2. The build system should automatically detect
which driver to use based on the current platform.

UNIX USERS
==========

X11 issues

When building the demos, the build system tries to detect your X11
path by looking for the patterns `X11/bin', `X11R6/bin', and
`X11R5/bin' in your current path (in this order). If no X11 path
is found, some demo programs will not be able to display graphics
and will fail. If you have X11 in an unusual place, use the
X11_PATH make variable. More than one directory, if necessary,
must be separated with spaces. Example:

make X11_PATH="/usr/openwin /usr/local/X11R6"

The build system then derives the X11_INCLUDE include file path
from X11_PATH by appending `/include' to all path components. It
also derives the X11_LIB library path from X11_PATH by appending
`/lib64' and `/lib' to all components (in that order). You might

override those
variables similar to X11_PATH as arguments to
`make'.

If you don't have X11 at all, fix the definition of the EXES
variable as described in the top-level Makefile.

Recent versions of Mac OS X no longer deliver X11 by default; you
have to install XQuartz, see

https://support.apple.com/en-us/HT201341

for more details.

Using a different build directory

If the `configure' script of the FreeType 2 library is run from a
separate build directory, it creates a dummy Makefile which sets
some variables before including the top-level Makefile of the
source directory. This dummy Makefile can also be used for the
ft2demos package to be compiled in a different build directory:

make FT2DEMOS=1 -f /path/to/freetype2/build-dir/Makefile

If necessary, adapt the `TOP_DIR_2' variable to make it point to
the ft2demos source directory.

--- end of README ---

Found in path(s):
*
/freetype-2-10-4-dfsg-orig-ft2demos-1-tar-xz/ft2demos-2.10.4/README
No license file was found, but licenses were detected in source scan.

/* Author: David Turner <david@freetype.org>
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*/

Found in path(s):
* /freetype-2-10-4-dfsg-orig-ft2demos-1-tar-xz/ft2demos-2.10.4/graph/grswizzle.c

1.359 gnupg-l10n 2.2.27-2+deb11u2

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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of sections 4 and 5, provided that you also convey the
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written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
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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
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1.362 libnsl 1.3.0-2

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Section 6 states terms for distribution of such executables.

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1.363 python 3.9.2-3

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.364 zlib 1.2.11.dfsg-2+deb11u2

1.364.1 Available under license :

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

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h
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Not copyrighted -- provided to the public domain

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

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

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications for Zip64 support
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

        For more info read MiniZip_info.txt

  Condition of use and distribution are the same than zlib :

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   misrepresented as being the original software.
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      Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://zlib.net/ . Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
-O, one libpng test fails. The test works in 32 bit mode (with the -n32
compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
OSF/1 2.1 it works
when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files

* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

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

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 jloup@gzip.org   madler@alumni.caltech.edu

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

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

        For more info read MiniZip_info.txt

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      Changes

      See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

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

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
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/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
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/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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 version 1.2, 11 Oct 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along

with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be
careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's
contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind
zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly.
Each call of inflate() or deflate() is limited to input and output chunks
of the maximum value that can be stored in the compiler's "unsigned int"
type, but there is no limit to the number of chunks. Note however that the
strm.total_in and strm_total_out counters may be limited to 4 GB. These
counters are provided as a convenience and are not used internally by
inflate() or deflate(). The application can easily set up its own counters
updated after each call of inflate() or deflate() to count beyond 4 GB.
compress() and uncompress() may be limited to 4 GB, since they operate in a
single call. gzseek() and gztell() may be limited to 4 GB depending on how
zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only
if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is
compiled to use sprintf() or vsprintf(), then there is no protection
against a buffer overflow of an 8K string space (or other value as set by
gzbuffer()), other than the caller of gzprintf() assuring that the output
will not exceed 8K. On the other hand, if zlib is compiled to use
snprintf() or vsnprintf(), which should normally be the case, then there is
no vulnerability. The ./configure script will display warnings if an
insecure variation of sprintf() will be used by gzprintf(). Also the
zlibCompileFlags() function will return information on what variant of
sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can
find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General
Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.365 libpam-pwquality 1.4.4-1

1.365.1 Available under license :

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1.366 libevent-dev 2.1.12-stable-1

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1.367 tcl 8.6.11+1

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1.370 init-system-helpers 1.60

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1.372 shadow 4.8.1-1

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1.373 coreutils 8.32-4+b1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg	libstdc++6-10-pic	
D	libphobos-10-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-10-base Base files common to all compilers
gcc-10-soft-float Software floating point (ARM only)
gcc-10-source The sources with patches

Ada:
libgnat-util10-dev, libgnat-util10 GNAT version library

C:
cpp-10, cpp-10-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
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- libgomp
- libitm
- libssp
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D:
gdc-10 GNU D Compiler
libphobos-10-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
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Version 3.1, 31 March 2009

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[This is the first released version of the library GPL. It is
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========

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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
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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable.

Therefore, we have designed this version of the GPL to prohibit the practice
for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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@item Source Code.

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

A ``Standard Interface'' means an interface that either is an official
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interfaces specified for a particular programming
language, one that
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The ``System Libraries'' of an executable work include anything, other
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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.

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the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
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1.375 libffi 3.3-6

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1.376 packaging 21.3

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1.386 numactl 2.0.12-1+b1

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1.387 graphite 1.3.14-1

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Source: https://github.com/silnrsi/graphite/releases

Files: *

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1.388 icu 67.1-7

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

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

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

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

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

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

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

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

# LDflags that pkgdata will use
```

BIR_LDFLAGS= -Wl,-Bsymbolic

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

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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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:

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

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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1.392 libgssapikrb 1.18.3-6+deb11u5

1.392.1 Available under license :

[NOTE: MIT has only incorporated the mechglue and spnego change, and
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
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lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c

lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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
kprop/kpropd_rpc.c
kprop/kproplog.c

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@end smallexample

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1.394 libjpeg-turbo 2.0.6-4

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1.395 libsemanage-common 3.1-1

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1.397 libyaml 0.2.2-1

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1.400 libdebconfclient0 0.260

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1.402 ncurses 6.2+20201114-2+deb11u2

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This package is used for testing builds of ncurses.

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src/bdf/bdf.h
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1.410 tcl8.6-dev 8.6.11+dfsg-1

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1.411 libcairo 1.16.0-5

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Packaged by Dave Beckett <dajobe@debian.org>

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1.412 libxcrypt 4.4.18-4

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1.418 libxcb-shm0-dev 1.14-3

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1.420 libpq-dev 13.18-0+deb11u1

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
```

```
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.421 libpamg 1.4.0-9+deb11u1

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1.422 xtrans 1.4.0-1

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1.424 g++ 10.2.1-1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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```
// This file was generated by gir (https://github.com/gtk-rs/gir)
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use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
  pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

  match fn {
    get_type => || gio_sys::g_permission_get_type(),
  }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
  fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

  fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
  );

  fn acquire_async_future(
    &self,
```

```
    ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );

    fn release_async_future(
        &self,
    ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

    fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

    fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self,
   f: F) -> SignalHandlerId;
}

impl<O: IsA<Permission>> PermissionExt for O {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
        unsafe {
            let mut error = ptr::null_mut();
            let _ = gio_sys::g_permission_acquire(
                self.as_ref().to_glib_none().0,
                cancellable.map(|p| p.as_ref()).to_glib_none().0,
                &mut error,
            );
            if error.is_null() {
                Ok(())
            } else {
                Err(from_glib_full(error))
            }
        }
    }

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
```

```
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn acquire_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(
        _source_object: *mut gobject_sys::GObject,
         res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = acquire_async_trampoline::<Q>;
    unsafe {
        gio_sys::g_permission_acquire_async(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box_::into_raw(user_data) as *mut _,
        );
    }
}

fn acquire_async_future(
    &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> +
'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.acquire_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });

        cancellable
    }))
}

fn get_allowed(&self) -> bool {
```

```
    unsafe {
        from_glib(gio_sys::g_permission_get_allowed(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
             self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
```

```
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn release_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
    >(
        _source_object: *mut gobject_sys::GObject,
        res: *mut gio_sys::GAsyncResult,
        user_data: glib_sys::gpointer,
    ) {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        };
        let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = release_async_trampoline::<Q>;
    unsafe {
        gio_sys::g_permission_release_async(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            Some(callback),
            Box_::into_raw(user_data) as *mut _,
        );
    }
}

 fn release_async_future(
    &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });

        cancellable
    }))
}
```

```
    fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
        unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
            this: *mut gio_sys::GPermission,
            _param_spec: glib_sys::gpointer,
            f: glib_sys::gpointer,
        ) where
            P: IsA<Permission>,
        {
            let f: &F = &*(f as *const F);
            f(&Permission::from_glib_borrow(this).unsafe_cast())
        }
        unsafe {
            let f: Box_<F> = Box_::new(f);
            connect_raw(
                self.as_ptr() as
    *mut _,
                b"notify::allowed\0".as_ptr() as *const _,
                Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
                Box_::into_raw(f),
            )
        }
    }

    fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
        unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
            this: *mut gio_sys::GPermission,
            _param_spec: glib_sys::gpointer,
            f: glib_sys::gpointer,
        ) where
            P: IsA<Permission>,
        {
            let f: &F = &*(f as *const F);
            f(&Permission::from_glib_borrow(this).unsafe_cast())
        }
        unsafe {
            let f: Box_<F> = Box_::new(f);
            connect_raw(
                self.as_ptr() as *mut _,
                b"notify::can-acquire\0".as_ptr() as *const _,
                Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
                Box_::into_raw(f),
            )
        }
    }

    fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
        unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
```

```
            this: *mut gio_sys::GPermission,
            _param_spec: glib_sys::gpointer,
            f: glib_sys::gpointer,
        ) where
            P: IsA<Permission>,
        {
            let f: &F = &*(f as *const F);
            f(&Permission::from_glib_borrow(this).unsafe_cast())
        }
        unsafe {
            let f: Box_<F> = Box_::new(f);
            connect_raw(
                self.as_ptr() as *mut _,
                b"notify::can-release\0".as_ptr() as *const _,
                Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
                Box_::into_raw(f),
            )
        }
    }
}

impl fmt::Display for Permission {
    fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
        write!(f, "Permission")
    }
}
```

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1.428 jaraco.context 5.3.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.430 libjbig-dev 2.1-3.1+b2

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* gparamspecs.h: GLib default param specs
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*
 /libglib-master-zip/libglib-master/include/glib-2.0/glib/deprecated/grel.h
* /libglib-master-zip/libglib-master/include/glib-2.0/glib/gtree.h
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* gvaluearray.h: GLib array type holding GValues
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 /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusobjectmanagerclient.h
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* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusintrospection.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusinterface.h

* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusmethodinvocation.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusobjectproxy.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusobjectmanager.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusaddress.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusnameowning.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusmessage.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusobjectmanagerserver.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gcredentials.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusproxy.h
*
/libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusobject.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusserver.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusutils.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbusinterfaceskeleton.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdbuserror.h
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*
/libglib-master-zip/libglib-master/include/glib-2.0/gio/gasyncinitable.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gzlibdecompressor.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gzlibcompressor.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gconverter.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gconverterinputstream.h
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/* GLIB - Library of useful routines for C programming
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*
* gdir.c: Simplified wrapper around the DIRENT functions.
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* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdatainputstream.h
*
 /libglib-master-zip/libglib-master/include/glib-2.0/gio/gioscheduler.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfilenamecompleter.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gdataoutputstream.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/ginputstream.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gcancellable.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gresource.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfilemonitor.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gioenums.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gthemedicon.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gicon.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/giotypes.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gvfs.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/goutputstream.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfileicon.h
*
 /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfile.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfileenumerator.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gioerror.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gappinfo.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gnativevolumemonitor.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/giomodule.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfileinfo.h
```

* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gseekable.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfileattribute.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gsimpleasyncresult.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfileoutputstream.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gcontenttype.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gio.h
*
 /libglib-master-zip/libglib-master/include/glib-2.0/gio/gfileinputstream.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gmountoperation.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gloadableicon.h
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*
* gvaluetypes.h: GLib default values

```
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```

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* gvalue.h: generic GValue functions
*/
```

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/libglib-master-zip/libglib-master/include/glib-2.0/gio/gtlsconnection.h
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* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gpollableoutputstream.h
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*
 /libglib-master-zip/libglib-master/include/glib-2.0/gio/gresolver.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gnetworkservice.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gsocketaddressenumerator.h
* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gsrvtarget.h
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*  Ray Strode <halfline@hawaii.rr.com>
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* /libglib-master-zip/libglib-master/include/glib-2.0/gio/gvolumemonitor.h
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* gvaluecollector.h: GValue varargs stubs
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*

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1.434 libncurses-dev 6.2+20201114-2+deb11u2

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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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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
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1.437 tcl 8.6.11+dfsg-1

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1.438 libc 2.31-13+deb11u11

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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.

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1.439 binutils 2.35.2-2

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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): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(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-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)
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```

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. 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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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 @@ Rev: 23371
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
-
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.443 libicu67 67.1-7

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

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

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

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

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

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

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

## Compilation
```

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

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

## End BSD-specific setup
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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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<one line to give the program'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.

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Gnomovision version 69, Copyright (C) 19xx 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 a sample; alter the names:

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

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

if ( $Config{usecrosscompile} ) {
```

```
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{
```

```
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}
```

1.450 cyrus-sasl 2.1.27+dfsg-2.1+deb11u1

1.450.1 Available under license :

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* Tim Martin
* Rob Earhart
* Rob Siemborski
*/
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1.451 libffi-dev 3.3-6

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* DNS resolver (dirmngr/dns.c)

 dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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Subsequently modified by:

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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1.456 pam 1.4.0-9+deb11u1

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1.459 debianutils 4.11.2

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1.461 libcairogobject 1.16.0-5

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This is the Debian package of the Cairo multi-platform 2D graphics library

Packaged by Dave Beckett <dajobe@debian.org>

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1.466 libexif 0.6.22-3

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1.469 openexr 2.5.4-2+deb11u1

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1.470 xorg-sgml-doctools 1.11-1.1

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and valid for as
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obligated to ensure that it is available for as long as needed to
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@item
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inform other peers where the object code and Corresponding Source of
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1.475 krb5-multidev 1.18.3-6+deb11u5

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c

lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
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lib/libgss/g_exp_sec_context.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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
kprop/kpropd_rpc.c
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1.476 unzip 6.0-26+deb11u1

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the system specific ports.
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Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights
are discussed in more detail below.

All remaining
code is now (starting with UnZip version 5.41) covered
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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
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There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

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(); re-
placement 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.
The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is
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The following copyright applies to the Mac OS File Manager interface code
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```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
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```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
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  * ---------------------------------------------------------------------
  * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
```

```
   * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
   * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume
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The following copyright applies to the full-featured unreduce.c
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```
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```

Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"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."

Despite the fact that our "normal" code has been entirely rewritten
and by default
no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contribu-
tions as useful as we have his.

Note that the third and fourth stipulations still apply to any com-
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```

```
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```

```
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```

```
 The remaining code was written by many people associated with the
 Info-ZIP group, with large contributions from (but not limited to):
 Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
```

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.

1.477 typing-extensions 4.12.2

1.477.1 Available under license :

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

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
 Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.478 mercurial 5.6.1

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```
#require unix-permissions no-root

 $ hg init a
 $ cd a
 $ echo foo > b
 $ hg add b
 $ hg ci -m "b"

 $ chmod -w .hg/store

 $ cd ..

 $ hg clone a b
 requesting all changes
 adding changesets
 adding manifests
 adding file changes
 added 1 changesets with 1 changes to 1 files
 new changesets 97310831fa1a
 updating to branch default
 1 files updated, 0 files merged, 0 files removed, 0 files unresolved

 $ chmod +w a/.hg/store # let test clean up
```

```
$ cd b
$ hg verify
checking changesets
checking manifests
crosschecking files in changesets and manifests
checking files
checked 1 changesets with 1 changes to 1 files

$ cd ..
```

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1.482 libtool 2.4.6-15

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1.485 tk 8.6.11+1

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1.486 more-itertools 10.3.0

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1.487 icu-devtools 67.1-7

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

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

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

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

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

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

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

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

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

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1.488 debconf 1.5.77

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1.494 urllib3 1.26.17

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1.499 distlib 0.3.9

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Distutils2 Contributors
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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
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