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Contents

1.1 jmespath 0.10.0
   1.1.1 Available under license
1.2 ecdsa 0.13.2
   1.2.1 Available under license
1.3 urllib3 1.26.9
   1.3.1 Available under license
1.4 python3-asn1crypto 0.24.0
   1.4.1 Available under license
1.5 brotli 1.0.9-2+b2
   1.5.1 Available under license
1.6 pycurl 7.43.0.6 5
   1.6.1 Available under license
1.7 init-system-helpers 1.60
   1.7.1 Available under license
1.8 dash 0.5.11+git20200708+dd9ef66-5
   1.8.1 Available under license
1.9 icu 67.1-7
   1.9.1 Available under license
1.10 libcap 2.44-1
   1.10.1 Available under license
1.11 resolvlib 0.5.4
   1.11.1 Available under license
1.12 libidn 2.3.0 5
   1.12.1 Available under license
1.13 adduser 3.118
   1.13.1 Available under license
1.14 media-types 4.0.0
    1.14.1 Available under license

1.15 python-setuptools 52.0.0-4
    1.15.1 Available under license

1.16 iconv 2.33
    1.16.1 Available under license

1.17 libfile-fcntllock-perl 0.22 3+b7
    1.17.1 Available under license

1.18 libhtml-parser-perl 3.75-1+b1
    1.18.1 Available under license

1.19 pep517 0.9.1
    1.19.1 Available under license

1.20 glibc 2.33-7
    1.20.1 Available under license

1.21 pyopenssl 19.0.0
    1.21.1 Available under license

1.22 python-pip 20.3.4
    1.22.1 Available under license

1.23 libsepol 3.1 1
    1.23.1 Available under license

1.24 html5lib 1.1
    1.24.1 Available under license

1.25 udev 247.3-7
    1.25.1 Available under license

1.26 kerberos 2.2
    1.26.1 Available under license

1.27 idna 2.10
    1.27.1 Available under license

1.28 icu 70
    1.28.1 Available under license

1.29 libssh2 1.9.0 2
    1.29.1 Available under license

1.30 pyparsing 2.4.7
    1.30.1 Available under license

1.31 packaging 20.9
    1.31.1 Available under license

1.32 tdb 1.46.2
    1.32.1 Available under license

1.33 xauth 1.1-1
1.34 systemd 247.3-7
  1.34.1 Available under license

1.35 hostname 3.23
  1.35.1 Available under license

1.36 libedit 3.1-20191231-2+b1
  1.36.1 Available under license

1.37 tar 1.34+dfsg-1
  1.37.1 Available under license

1.38 debconf 1.5.77
  1.38.1 Available under license

1.39 retrying 1.3.3
  1.39.1 Available under license

1.40 zlib 1.2.11
  1.40.1 Available under license

1.41 progress 1.5
  1.41.1 Available under license

1.42 unzip 6.0 26
  1.42.1 Available under license

1.43 pinentry 1.1.0-4
  1.43.1 Available under license

1.44 msgpack 1.0.0
  1.44.1 Available under license

1.45 dpkg 1.20.9
  1.45.1 Available under license

1.46 e2fsprogs 1.46.2 2
  1.46.1 Available under license

1.47 libgd 2.3.0 2
  1.47.1 Available under license

1.48 rpcsvc-proto 1.4.2-4
  1.48.1 Available under license

1.49 libpwquality 1.4.4-1
  1.49.1 Available under license

1.50 make 4.3 4.1
  1.50.1 Available under license

1.51 nettle 3.7.3-1
  1.51.1 Available under license

1.52 underscore 1.9.1~dfsg-3
  1.52.1 Available under license
1.53 distro-info-data 0.51+deb11u1
   1.53.1 Available under license
1.54 perl 5.32.1-4+deb11u2
   1.54.1 Available under license
1.55 rtmpdump 2.4+20151223.gitfa8646d.1-2+b2
   1.55.1 Available under license
1.56 pyyaml 5.4.1
   1.56.1 Available under license
1.57 mpdecimal 2.5.1-2
   1.57.1 Available under license
1.58 gnupg 2.2.27-2+deb11u1
   1.58.1 Available under license
1.59 audit 3.0-2
   1.59.1 Available under license
1.60 urllib3 1.26.5
   1.60.1 Available under license
1.61 distro 1.5.0
   1.61.1 Available under license
1.62 urllib3 1.25.5
   1.62.1 Available under license
1.63 free-type 2.10.4+dfsg-1
   1.63.1 Available under license
1.64 mpclib 1.2.0-1
   1.64.1 Available under license
1.65 python 3.9.2-3
   1.65.1 Available under license
1.66 geo-ip 1.6.12-7
   1.66.1 Available under license
1.67 botocore 1.19.63
   1.67.1 Available under license
1.68 liblocale-gettext-perl 1.07 4+b1
   1.68.1 Available under license
1.69 sysv-init 2.96-7+deb11u1
   1.69.1 Available under license
1.70 pycurl 7.43.0.6-5
   1.70.1 Available under license
1.71 libcgi-pm-perl 4.51-1
   1.71.1 Available under license
1.72 libgd 2.3.0-2
1.72.1 Available under license
1.73 contextlib2 0.6.0.post1
    1.73.1 Available under license
1.74 python-dateutil 2.8.2
    1.74.1 Available under license
1.75 certifi 2019.09.11
    1.75.1 Available under license
1.76 webencodings 0.5.1
    1.76.1 Available under license
1.77 nginx 1.18.0-6.1+deb11u1
    1.77.1 Available under license
1.78 libgcrypt 1.8.7 6
    1.78.1 Available under license
1.79 libmnl 1.0.4-3
    1.79.1 Available under license
1.80 libxmu 1.1.2-2+b3
    1.80.1 Available under license
1.81 six 1.12.0
    1.81.1 Available under license
1.82 lsb 11.1.0
    1.82.1 Available under license
1.83 libnsl 1.3.0-2
    1.83.1 Available under license
1.84 cracklib 2.9.6-3.4
    1.84.1 Available under license
1.85 gpm 1.20.7-8
    1.85.1 Available under license
1.86 gobject-introspection 1.66.1-1+b1
    1.86.1 Available under license
1.87 nghttp2 1.43.0-1
    1.87.1 Available under license
1.88 scowl 2019.10.06-1
    1.88.1 Available under license
1.89 python-stdlib-extensions 3.9.2-1
    1.89.1 Available under license
1.90 pcre 10.36-2
    1.90.1 Available under license
1.91 libcap 2.44-1
    1.91.1 Available under license
1.92 libxml 2.9.10+dfsg 6.7+deb11u1
   1.92.1 Available under license
1.93 packaging 16.8
   1.93.1 Available under license
1.94 bash 5.1 2+b3
   1.94.1 Available under license
1.95 libassuan 2.5.3 7.1
   1.95.1 Available under license
1.96 isl 0.23-1
   1.96.1 Available under license
1.97 mawk 1.3.4.20200120 2
   1.97.1 Available under license
1.98 rsa 4.0
   1.98.1 Available under license
1.99 berkeley-db 5.3.28+dfsg1-0.8
   1.99.1 Available under license
1.100 nghttp2 1.43.0-1
   1.100.1 Available under license
1.101 certifi 2020.6.20
   1.101.1 Available under license
1.102 go 1.15
   1.102.1 Available under license
1.103 prometheus-client 1.11.1
   1.103.1 Available under license
1.104 colorama 0.4.4
   1.104.1 Available under license
1.105 xxhash 0.8.0-2
   1.105.1 Available under license
1.106 npth 1.6-3
   1.106.1 Available under license
1.107 ucf 3.0043
   1.107.1 Available under license
1.108 cpp 10.2.1-1
   1.108.1 Available under license
1.109 debian-archive-keyring 2021.1.1
   1.109.1 Available under license
1.110 open-ldap 2.4.57+dfsg-3
   1.110.1 Available under license
1.111 software-properties 0.96.20.2-2.1
1.111.1 Available under license
1.112 libdeflate 1.7-1
   1.112.1 Available under license
1.113 cffi 1.12.3
   1.113.1 Available under license
1.114 elfutils 0.183-1
   1.114.1 Available under license
1.115 s3transfer 0.3.7
   1.115.1 Available under license
1.116 libbsd 0.11.3-1
   1.116.1 Available under license
1.117 keyutils 1.6.1-2
   1.117.1 Available under license
1.118 sudo 1.9.5p2 3
   1.118.1 Available under license
1.119 popt 1.18-2
   1.119.1 Available under license
1.120 chardet 3.0.4
   1.120.1 Available under license
1.121 openssl 1.1.1n-1
   1.121.1 Available under license
1.122 file 5.39-3
   1.122.1 Available under license
1.123 libwebp 0.6.1-2.1
   1.123.1 Available under license
1.124 ncurses 6.2+20201114-2
   1.124.1 Available under license
1.125 rsync 3.2.3 4+deb11u1
   1.125.1 Available under license
1.126 iproute 5.10.0 4
   1.126.1 Available under license
1.127 curl 7.74.0 1.3+deb11u1
   1.127.1 Available under license
1.128 netbase 6.3
   1.128.1 Available under license
1.129 binutils 2.35.2-2
   1.129.1 Available under license
1.130 libksba 1.5.0-3
   1.130.1 Available under license
1.131 python-dateutil 2.7.3-1.ph3
   1.131.1 Available under license

1.132 python-apt 2.2.1
   1.132.1 Available under license

1.133 fonts-dejavu 2.37-2
   1.133.1 Available under license

1.134 botocore 1.25.1
   1.134.1 Available under license

1.135 certifi 2020.06.20
   1.135.1 Available under license

1.136 libbpf 0.3-2
   1.136.1 Available under license

1.137 diffutils 3.7-5
   1.137.1 Available under license

1.138 attr 2.4.48-6
   1.138.1 Available under license

1.139 python-jose 3.0.1
   1.139.1 Available under license

1.140 glibc 2.31-13+deb11u3
   1.140.1 Available under license

1.141 v8 8.4.371.23
   1.141.1 Available under license

1.142 distlib 0.3.1
   1.142.1 Available under license

1.143 selinux 3.1-3
   1.143.1 Available under license

1.144 sensible-utils 0.0.14
   1.144.1 Available under license

1.145 liburi-perl 5.08-1
   1.145.1 Available under license

1.146 liberror-perl 0.17029-1
   1.146.1 Available under license

1.147 chardet 4.0.0
   1.147.1 Available under license

1.148 appdirs 1.4.4
   1.148.1 Available under license

1.149 future 0.17.1
   1.149.1 Available under license

1.150 libseccomp 2.5.1-1+deb11u1
1.150.1 Available under license

1.151 sphinx 3.4.3-2
1.151.1 Available under license

1.152 gmp 6.2.1+dfsg-1+deb11u1
1.152.1 Available under license

1.153 e2fsprogs 1.46.5 2~bpo11+2
1.153.1 Available under license

1.154 libyaml 0.2.5
1.154.1 Available under license

1.155 gzip 1.10 4+deb11u1
1.155.1 Available under license

1.156 p11-kit 0.23.22-1
1.156.1 Available under license

1.157 libxcb 1.14 3
1.157.1 Available under license

1.158 public-suffix 20211207.1025 0+deb11u1
1.158.1 Available under license

1.159 pkg_resources 0.0.0
1.159.1 Available under license

1.160 packaging 20.4
1.160.1 Available under license

1.161 libjpeg-turbo 2.0.6-4
1.161.1 Available under license

1.162 libpsl 0.21.0-1.2
1.162.1 Available under license

1.163 iso-codes 4.6.0-1
1.163.1 Available under license

1.164 libxcrypt 4.4.18-5
1.164.1 Available under license

1.165 libalgorithm-merge-perl 0.08-3
1.165.1 Available under license

1.166 toml 0.10.1
1.166.1 Available under license

1.167 expat 2.2.10 2+deb11u3
1.167.1 Available under license

1.168 sed 4.7 1
1.168.1 Available under license

1.169 apt 2.2.4
1.169.1 Available under license
1.170 acl 2.2.53-10
  1.170.1 Available under license
1.171 readline 8.1-1
  1.171.1 Available under license
1.172 bzip2 1.0.8 4
  1.172.1 Available under license
1.173 libx11 1.7.2-1
  1.173.1 Available under license
1.174 patch 2.7.6 7
  1.174.1 Available under license
1.175 packaging 19.2
  1.175.1 Available under license
1.176 libxpm 3.5.12-1
  1.176.1 Available under license
1.177 certifi 2019.9.11
  1.177.1 Available under license
1.178 sqlite 3.34.1-3
  1.178.1 Available under license
1.179 libunistring 0.9.10 4
  1.179.1 Available under license
1.180 idna 2.8
  1.180.1 Available under license
1.181 python-requests 2.25.1
  1.181.1 Available under license
1.182 libcap-ng 0.7.9 2.2+b1
  1.182.1 Available under license
1.183 brotli 1.0.9-2+b2
  1.183.1 Available under license
1.184 cachecontrol 0.12.6
  1.184.1 Available under license
1.185 libhtml-tagset-perl 3.20-4
  1.185.1 Available under license
1.186 grep 3.6 1
  1.186.1 Available under license
1.187 asyncio 3.9.2-1
  1.187.1 Available under license
1.188 d-bus 1.12.20 2
  1.188.1 Available under license
1.189 python-requests 2.22.0
1.189.1 Available under license
1.190 libalgorithm-diff-perl 1.201-1
   1.190.1 Available under license
1.191 openssl 1.1.1n
   1.191.1 Available under license
1.192 libalgorithm-diff-xs-perl 0.04 6+b1
   1.192.1 Available under license
1.193 iptables 1.8.7 1
   1.193.1 Available under license
1.194 boto3 1.16.52
   1.194.1 Available under license
1.195 debianutils 4.11.2
   1.195.1 Available under license
1.196 pyasn1 0.4.7
   1.196.1 Available under license
1.197 build-essential 12.9
   1.197.1 Available under license
1.198 linux-libc-dev 5.10.106-1
   1.198.1 Available under license
1.199 fakeroot 1.25.3-1.1
   1.199.1 Available under license
1.200 pcre 8.39-13
   1.200.1 Available under license
1.201 libtasn 4.16.0 2
   1.201.1 Available under license
1.202 libanyevent-perl 7.170-2+b1
   1.202.1 Available under license
1.203 less 551 2
   1.203.1 Available under license
1.204 lz4 1.9.3-2
   1.204.1 Available under license
1.205 fcgi 2.4.2-2
   1.205.1 Available under license
1.206 nginx 1.18.0-6.1
   1.206.1 Available under license
1.207 util-linux 2.36.1 8+deb11u1
   1.207.1 Available under license
1.208 libxext 1.3.3-1.1
   1.208.1 Available under license
1.209 fontconfig 2.13.1 4.2
   1.209.1 Available under license
1.210 libcbor 0.5.0+dfsg-2
   1.210.1 Available under license
1.211 libfido2 1.6.0-2
   1.211.1 Available under license
1.212 filelock 3.6.0
   1.212.1 Available under license
1.213 futures 0.17.1
   1.213.1 Available under license
1.214 dbus-python 1.2.16-5
   1.214.1 Available under license
1.215 gnuTLS 3.7.1-5
   1.215.1 Available under license
1.216 base-files 11.1+deb11u3
   1.216.1 Available under license
1.217 six 1.16.0
   1.217.1 Available under license
1.218 shadow 4.8.1-1
   1.218.1 Available under license
1.219 mpfr 4.1.0-3
   1.219.1 Available under license
1.220 libxdmcp 1.1.2-3
   1.220.1 Available under license
1.221 node.js 14.19.1-deb-1nodesource1
   1.221.1 Available under license
1.222 readline 8.1-1
   1.222.1 Available under license
1.223 kerberos 1.18.3-6+deb11u1
   1.223.1 Available under license
1.224 requests-toolbelt 0.9.1
   1.224.1 Available under license
1.225 gdbm 1.19-2
   1.225.1 Available under license
1.226 libxslt 1.1.34 4
   1.226.1 Available under license
1.227 libfcgi-perl 0.79+ds-2
   1.227.1 Available under license
1.228 jbig-kit 2.1-3.1+b2
<table>
<thead>
<tr>
<th>Version</th>
<th>Application/Package</th>
<th>Version Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.228.1</td>
<td>Available under license</td>
<td></td>
</tr>
<tr>
<td>1.229</td>
<td>cdebconf 0.260</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.230</td>
<td>libsemanage 3.1 1+b2</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.231</td>
<td>python-setuptools 44.1.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.232</td>
<td>javascript-common 11+nmu1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.233</td>
<td>zstd 1.4.8+dfsg-2.1</td>
<td>Available under license</td>
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<tr>
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<td>zlib 1.2.11.dfsg-2+deb11u1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.235</td>
<td>ca-certificates 20210119</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.236</td>
<td>coreutils 8.32 4+b1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.237</td>
<td>aws-cli 1.23.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.238</td>
<td>libpng 1.6.37 3</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.239</td>
<td>glib 2.66.8-1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.240</td>
<td>libgpg-error 1.38 2</td>
<td>Available under license</td>
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<td>1.241</td>
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<td>Available under license</td>
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<tr>
<td>1.242</td>
<td>ipaddr 2.2.0</td>
<td>Available under license</td>
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<tr>
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<td>cyrus-sasl 2.1.27+dfsg-2.1+deb11u1</td>
<td>Available under license</td>
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<td>1.244</td>
<td>tzdata 2021a 1+deb11u3</td>
<td>Available under license</td>
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<tr>
<td>1.245</td>
<td>pam 1.4.0-9+deb11u1</td>
<td>Available under license</td>
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<tr>
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<td>pygobject 3.38.0-2</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.247</td>
<td>python-pip 20.3.4 4+deb11u1</td>
<td>Available under license</td>
</tr>
</tbody>
</table>
1.248 libsemanage 3.1-1
   1.248.1 Available under license
1.249 libxau 1.0.9-1
   1.249.1 Available under license
1.250 base-passwd 3.5.51
   1.250.1 Available under license
1.251 make 4.3-4.1
   1.251.1 Available under license
1.252 libffi 3.3 6
   1.252.1 Available under license
1.253 findutils 4.8.0 1
   1.253.1 Available under license
1.254 s3transfer 0.5.2
   1.254.1 Available under license
1.255 libmd 1.0.3-3
   1.255.1 Available under license
1.256 packagekit 1.2.2-2
   1.256.1 Available under license
1.257 cryptography 2.7
   1.257.1 Available under license
1.258 pycparser 2.19
   1.258.1 Available under license
1.259 wget 1.21 1+deb11u1
   1.259.1 Available under license
1.260 man-pages 5.10-1
   1.260.1 Available under license
1.261 openssh 8.4p1-5
   1.261.1 Available under license
1.262 node-jquery 3.5.1+dfsg+-3.5.5-7
   1.262.1 Available under license
1.263 libtirpc 1.3.1-1
   1.263.1 Available under license
1.264 xz 5.2.5-2.1~deb11u1
   1.264.1 Available under license
1.265 wheel 0.34.2
   1.265.1 Available under license
1.266 libtiff 4.2.0 1+deb11u1
   1.266.1 Available under license
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1.1 jmespath 0.10.0

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1.3 urllib3 1.26.9

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1.4 python3-asn1crypto 0.24.0

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1.5 brotli 1.0.9-2+b2
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1.6 pycurl 7.43.0.6 5
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1.8 dash 0.5.11+git20200708+dd9ef66-5

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1.9 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
THREADSCPFLAGS = -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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1.13 adduser 3.118

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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1.16 iconv 2.33

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1.17 libfile-fcntllock-perl 0.22 3+b7

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1.18 libhtml-parser-perl 3.75-1+b1

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1.21 pyopenssl 19.0.0

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1.22 python-pip 20.3.4

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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cacert.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webservice for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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1.24 html5lib 1.1

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1.25 udev 247.3-7

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1.26 kerberos 2.2
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lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
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
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
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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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/gssdp_name_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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1.27 idna 2.10

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import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = { }
    exec(open('idna/package_data.py').read(), package_data)

    arguments = { 
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [ 
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
        ]
    }

    setup(**arguments)
1.28 icu 70

1.28.1 Available under license:

```
---
layout: default
title: Legalities
parent: Release & Milestone Tasks
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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
SHAREDLIBFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -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) $< \n | sed "s/\(\$\%\).o\ :\ :/\1.o $@ : /g" > $@; \n [ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for "$<"
@$(SHELL) -ec "$<$(GEN_DEPS.cc) $< \n | sed "s/\(\$\%\).o\ :\ :/\1.o $@ : /g" > $@; \n [ -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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1.35 hostname 3.23

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1.37 tar 1.34+dfsg-1

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*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
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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.

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1.46 e2fsprogs 1.46.2 2
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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
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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): $(OBJ) $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(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
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uninstall-shlibs uninstall:.
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

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

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

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

-  trivial database library - private includes
-
-  Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/
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Gadi Oxman, August 1995

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The End

1.55 rtmpdump 2.4+20151223.gitfa8646d.1-2+b2

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1.58 gnupg 2.2.27-2+deb11u1

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1.60 urllib3 1.26.5

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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* HTTPS patch (which inspired HTTPSConnectionPool)
* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

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

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* Python 3 support

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

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

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

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

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

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.
* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`
* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

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

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

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

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

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

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

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying ```SSLContext.load_verify_locations()```

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <stycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded
* [Bastiaan Bakker] <https://github.com/bastiaanb>
* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

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

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Thanks!

* https://github.com/andy-maier
* https://github.com/SethMichaelLarson
* https://github.com/asottile
1.62 urllib3 1.25.5

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# Contributions to the urllib3 project

## Creator & Maintainer

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## Contributors

In chronological order:

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

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFBQ6/>
  * Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage
* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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

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

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

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

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

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

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

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

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

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

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

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

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support
* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

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

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

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

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

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

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

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

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

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

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

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

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

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
  HTTPConnectionPool._make_request(), also for BaseExceptions.

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

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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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1.69 sysv-init 2.96-7+deb11u1

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This package was debianized by Akira TAGOH <tagoh@debian.org> on
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1.71 libcgi-pm-perl 4.51-1

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1.72 libgd 2.3.0-2

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1.73 contextlib2 0.6.0.post1

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A. HISTORY OF THE SOFTWARE
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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed
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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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---------------------------------------------------------------------------
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1.75 certifi 2019.09.11
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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
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.
1.76 webencodings 0.5.1

1.76.1 Available under license:

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:license: BSD, see LICENSE for details.

from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
url='https://github.com/SimonSapin/python-webencodings',
license='BSD',
author='Simon Sapin',
author_email='simon.sapin@exyr.org',
maintainer='Geoffrey Sneddon',
maintainer_email='me@gsnedders.com',
description='Character encoding aliases for legacy web content',
long_description=LONG_DESCRIPTION,
classifiers=[
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~
Regenarate the webencodings.labels module.

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:license: BSD, see LICENSE for details.

import json
try:
    from urllib import urlopen
except ImportError:
from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['\\n    webencodings.labels

    Map encoding labels to their name.

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    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
        ""
    }
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']
    ]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '%s:%s, %s
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

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* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
python-webencodings

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

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* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1.1-tar-gz/webencodings-0.5.1/README.rst

1.77 nginx 1.18.0-6.1+deb11u1

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1.78 libgcrypt 1.8.7 6

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1.80 libxmu 1.1.2-2+b3

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1.86 gobject-introspection 1.66.1-1+b1
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Version 2, June 1991
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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1.87 nghttp2 1.43.0-1

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set style histogram errorbars gap 2 lw 1
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1.88 scowl 2019.10.06-1

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Found in path(s):
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.7/Lib/lib2to3/fixtures/fix_has_key.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_has_key.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.8/Lib/lib2to3/fixtures/fix_apply.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.6/Lib/lib2to3/pygram.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.10/Lib/lib2to3/pygram.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_exec.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.10/Lib/lib2to3/fixtures/fix_exec.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_repr.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.10/Lib/lib2to3/fixtures/fix_repr.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_ne.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.10/Lib/lib2to3/fixtures/fix_ne.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.8/Lib/lib2to3/fixtures/fix_repr.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.7/Lib/lib2to3/fixtures/fix_has_key.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.10/Lib/lib2to3/pytest.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.9/Lib/lib2to3/fixtures/fix_execfile.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_print.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
  extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_execfile.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-
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extensions-3.9.2/3.6/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixtures/fix_ne.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixtures/fix_print.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixtures/fix_apply.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixtures/fix_exec.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/patcomp.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixtures/fix_print.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixtures/fix_print.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pygram.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixtures/fix_has_key.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/refactor.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_exec.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixtures/fix_execfile.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_apply.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixtures/fix_ne.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixtures/fix_repr.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.3/Lib/lib2to3/fixtures/fix_apply.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.3/Lib/lib2to3/fixtures/fix_ne.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.3/Lib/lib2to3/fixtures/fix_print.py
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# version.

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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.8/Lib/lib2to3/pytree.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.9/Lib/lib2to3/pytree.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.7/Lib/lib2to3/fixtures/fix_ne.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/lib2to3/patcomp.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/pytree.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/fixer_base.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/cygwinccompiler.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_wininst.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_wininst.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_wininst.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_wininst.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_wininst.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_wininst.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stddlib-extensions-3-9-2-orig-tar-xz/python3-stddlib-extensions-3.9.2/3.6/Lib/lib2to3/distutils/command/bdist_wininst.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):
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/distutils/command/bdist_msi.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1165786362_1639655896.34/0/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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file.write('License: %s
' % self.get_license())

Found in path(s):
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/distutils/command/bdist_rpm.py
* /opt/cola/permits/1165786362_1639655896.34/0/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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# 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):
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/PaternGrammar.txt
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/PaternGrammar.txt
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/PaternGrammar.txt
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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/PaternGrammar.txt

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Found in path(s):
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Modules/_tkinter.c
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Modules/_tkinter.c
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Modules/_tkinter.c
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Modules/_tkinter.c
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Modules/_tkinter.c
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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/distutils/spawn.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/distutils/spawn.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/distutils/spawn.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/distutils/spawn.py
* /opt/cola/permits/1165786362_1639655896.34/0/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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Found in path(s):
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_standarderror.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/fixes/fix_map.py
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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/fixes/fix_buffer.py
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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.7/Lib/lib2to3/fixes/fix_dict.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3.9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/fixes/fix_buffer.py

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extensions-3.9.2/3.6/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/grammar.py
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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/__init__.py
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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.10/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.6/Lib/lib2to3/pgen2/tokenize.py
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* /opt/cola/permits/1165786362_1639655896.34/0/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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* /opt/cola/permits/1165786362_1639655896.34/0/python3-stdlib-extensions-3-9-2-orig-tar-xz/python3-stdlib-extensions-3.9.2/3.9/Lib/lib2to3/pgen2/driver.py
1.90 pcre 10.36-2

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Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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1.97 mawk 1.3.4.20200120 2

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set style histogram errorbars gap 2 lw 1
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1.101 certifi 2020.6.20

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1.102 go 1.15
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.107 ucf 3.0043

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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 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 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
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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.109 debian-archive-keyring 2021.1.1

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1.110 open-ldap 2.4.57+dfsg-3

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
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Cheloha, Scott
ek, Vtzslav
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Dai, Wei
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Eckhardt, Drew
Edgington, Ben
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Farrell, Brian
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Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
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Jover, Guillemin
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kraenenberg, Paul
Krause, David
Lakin, Eric
Larsen, Case
The following people have worked to translate sudo into
other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
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Rasmussen, Sebastian
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Sarer, zgr
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erbnescu, Daniel
Sikrom, ka
Spingos, Dimitris
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Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
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Wang, Wylmer
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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

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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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Upstream-Name: ncurses
Upstream-Contact: bug-ncurses@gnu.org
   Thomas Dickey <dickey@his.com>
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-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.125 rsync 3.2.3 4+deb11u1
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1.140 glibc 2.31-13+deb11u3

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Email domain: cam.ac.uk
University of Cambridge Computing Service,

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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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1.142 distlib 0.3.1

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martin Brugu
- Nicolas Cadou
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----------------------------------------------------------------------

### 1.152 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>

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1.153 e2fsprogs 1.46.5 2~bpo11+2

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file system consistency checker (e2fsck.static). The EXT2 utilities
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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): $(OBJECTS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJECTS))
$(MV) pic/$(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)
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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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
/*
/ *
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
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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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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: 
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Gadi Oxman, August 1995

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1.161 libjpeg-turbo 2.0.6-4

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1.165 libalgorithm-merge-perl 0.08-3

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#
sub main::diag {
    warn join('', @_), "\n";
}

print join(" ", merge(
    print Data::Dumper->Dump(
        merge( # ancestor
            qw(a b c d h i j)), # left
            qw(a b c d f h i j)), # right
            qw(0 1 2 3 4 7 9 b)),
    qw(a b c d h i j)))

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Algorithm::Merge - Three-way merge and diff

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
    }, $key_generation_function);

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

$merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
    }, $key_generation_function);

@diff = diff3(\@ancestor, \@a, \@b);
@diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff = diff3(\@ancestor, \@a, \@b);

$diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.
Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a'],
[ 'u', 'b', 'b', 'b'],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.
If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/> , the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>`s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...` warning. It will try to handle this, but there may be some cases where it can't.
=head1 SEE ALSO

L<Algorithm::Diff>. 

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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Found in path(s):
* /opt/cola/permits/1176105893_1624619075.97/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/Merge.pm

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NAME
Algorithm::Merge - Three-way merge and diff

SYNOPSIS
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(
@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

@merged = merge(
@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

$merged = merge(
@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

$merged = merge(
@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3(
@ancestor, \@a, \@b);

@diff = diff3(
@ancestor, \@a, \@b, $key_generation_function);

$diff = diff3(
@ancestor, \@a, \@b);
USAGE
This module complements Algorithm::Diff by providing three-way merge and
diff functions.

In this documentation, the first list to "diff3", "merge", and
"traverse_sequences3" is called the `original' list. The second list is
the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in
Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way
difference.

This function returns an array of operations describing how the left and
right lists differ from the original list. In scalar context, this
function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
  left: a b d e f g i j k
  right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:
The first element in each row is the array with the difference:

- **c** - conflict (no two are the same)
- **l** - left is different
- **o** - original is different
- **r** - right is different
- **u** - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

**merge**
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},
```

**traverse_sequences3**
This is the workhorse function that goes through the three sequences and calls the callback functions.
The following callbacks are supported.

**NO_CHANGE**
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

**A_DIFF**
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**B_DIFF**
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**C_DIFF**
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from
the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an 'Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

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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:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.178 sqlite 3.34.1-3

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---
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

---

import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA),'}
1.181 python-requests 2.25.1

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1.182 libcap-ng 0.7.9 2.2+b1

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1.185 libhtml-tagset-perl 3.20-4

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=head1 CAVEATS

You may find it useful to alter the behavior of modules (like C<HTML::Element> or C<HTML::TreeBuilder>) that use C<HTML::Tagset>’s data tables by altering the data tables themselves. You are welcome to try, but be careful; and be aware that different modules may or may react differently to the data tables being changed.

Note that it may be inappropriate to use these tables for I<producing> HTML -- for example, C<w%isHeadOrBodyElement> lists the tagnames for all elements that can appear either in the head or in the body, such as "script". That doesn't mean that I am saying your code that produces HTML should feel free to put script elements in either place! If you are producing programs that spit out HTML, you should be I<intimately> familiar with the DTDs for HTML or XHTML (available at C<http://www.w3.org/>), and you should slavishly obey them, not the data tables in this document.
=head1 SEE ALSO

L<HTML::Element>, L<HTML::TreeBuilder>, L<HTML::LinkExtor>

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Most of the code/data in this module was adapted from code written by Gisle Aas for C<HTML::Element>, C<HTML::TreeBuilder>, and C<HTML::LinkExtor>. Then it was maintained by Sean M. Burke.

=head1 AUTHOR

Current maintainer: Andy Lester, C<< <andy at petdance.com> >>

=head1 BUGS

Please report any bugs or feature requests to C<bug-html-tagset at rt.cpan.org>, or through the web interface at L<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=HTML-Tagset>. I will be notified, and then you'll automatically be notified of progress on your bug as I make changes.

=cut

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README for HTML::Tagset

   HTML::Tagset

This module contains data tables useful in dealing with HTML.

It provides no functions or methods.
PREREQUISITES

This suite requires Perl 5.

HTML::Tagset doesn't use any nonstandard modules.

INSTALLATION

You install HTML::Tagset, as you would install any perl module library, by running these commands:

perl Makefile.PL
make
make test
make install

If you want to install a private copy of HTML::Tagset in your home directory, then you should try to produce the initial Makefile with something like this command:

perl Makefile.PL LIB=~/.perl

DOCUMENTATION

POD-format documentation is included in Tagset.pm. POD is readable with the 'perldoc' utility. See ChangeLog for recent changes.

MACPERL INSTALLATION NOTES

Don't bother with the makefiles. Just make a HTML directory in your MacPerl site_lib or lib directory, and move Tagset.pm into there.

SUPPORT

Questions, bug reports, and suggestions for HTML::Tagset should just be sent to me at sburke@cpan.org

AVAILABILITY

The latest version of HTML::Tagset is available from the Comprehensive Perl Archive Network (CPAN). Visit
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1.186 grep 3.6 1
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#
# 'Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
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# # under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;
foreach $chunk (@$diffs) {
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s\n", $lineno+1, $text;
    }
    print "--------\n";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/cola/permits/1222304463_1635545609.76/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff-1.201/bin/diff.pl
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# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
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#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
# use strict;

use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
  -c will do a context diff with 3 lines of context
ENDUSAGE
getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items # we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;
open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

-C will do a context diff with 'lines' lines of context
-u will do a unified diff with 3 lines of context
-U will do a unified diff with 'lines' lines of context
ENDUSAGE
my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
$hunk = new Hunk ($piece, $Context_Lines);
next unless $oldhunk;
if ($hunk->does_overlap($oldhunk)) {
$hunk->prepend_hunk($oldhunk);
} else {
$oldhunk->output_diff(\@f1, \@f2);
}
} continue {
$oldhunk = $hunk;
}
# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM
sub bag {
my $msg = shift;
$msg .= "\n";
warn $msg;
exit 2;
}
# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;
sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks
- a list of Block objects
# start
- index in file 1 where first block of the hunk starts
# end
- index in file 1 where last block of the hunk ends
#
# Variables:

Open Source Used In Umbrella SpeedTest production 1532


# before_diff - how much longer file 2 is than file 1 due to all hunks
# until but NOT including this one
# after_diff - difference due to all hunks including this one

my ($class, $piece, $context_items) = @_; # this modifies $FLD!

my $block = new Block ($piece);  
my $before_diff = $File_Length_Difference;  
my $after_diff = $before_diff + $block->{"length_diff"};

$File_Length_Difference += $block->{"length_diff"};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths

my @remove_array = $block->remove;
my @insert_array = $block->insert;

@a1, @a2, @b1, @b2, $start1, $start2, $end1, $end2;

$a1 = @remove_array ? $remove_array[0]->{"item_no"} : -1;
a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0]->{"item_no"} : -1;
b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $shunk = {
"start1" => $start1,
"start2" => $start2,
"end1" => $end1,
"end2" => $end2,
"blocks" => [$block],
}
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
  my ($shunk, $context_items) = @_;
return unless $context_items; # no context

# add context before
my $start1 = $hunk->{'start1'};
my $num_added = $context_items > $start1 ? $start1 : $context_items;
$hunk->{'start1'} -= $num_added;
$hunk->{'start2'} -= $num_added;

# context after
my $end1 = $hunk->{'end1'};
$num_added = ($end1+$context_items > $#f1) ?
    $#f1 - $end1 :
    $context_items;
$hunk->{'end1'} += $num_added;
$hunk->{'end2'} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;  # first time through, $oldhunk is empty
    return "" unless $oldhunk;
    # Do I actually need to test both?
    return ($hunk->{'start1'} - $oldhunk->{'end1'} <= 1 ||
        $hunk->{'start2'} - $oldhunk->{'end2'} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;  
    $hunk->{'start1'} = $oldhunk->{'start1'};
    $hunk->{'start2'} = $oldhunk->{'start2'};
    unshift (@{$hunk->"blocks"}, @{$oldhunk->"blocks"});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) &output_unified_diff(@_)
    elsif (defined $main::opt_c) &output_context_diff(@_)
    else {die "unknown diff"}
}

sub output_unified_diff {
my ($hunk, $fileref1, $fileref2) = @_;  
my @blocklist;

# Calculate item number range.  
my $range1 = $hunk->unified_range(1);  
my $range2 = $hunk->unified_range(2);  
print "$range1 +$range2 @\n";

# Outlist starts containing the hunk of file 1.  
# Removing an item just means putting a '-' in front of it.  
# Inserting an item requires getting it from file2 and splicing it in.  
# We splice in $num_added items. Remove blocks use $num_added because  
# splicing changed the length of outlist.  
# We remove $num_removed items. Insert blocks use $num_removed because  
# their item numbers---corresponding to positions in file *2*---don't take  
# removed items into account.  
my $low = $hunk->{"start1"};  
my $hi = $hunk->{"end1"};  
my ($num_added, $num_removed) = (0,0);  
my @outlist = @$fileref1[$low..$hi];  
map {s/^/ /} @outlist; # assume it's just context

foreach my $block (@{$hunk->{"blocks"}}) {  
  foreach my $item ($block->remove) {  
    my $op = $item->{"sign"}; # -  
    my $offset = $item->{"item_no"} - $low + $num_added;  
    @outlist[$offset] =~ s/^ /$op/;  
    $num_removed++;
  }  
  foreach my $item ($block->insert) {  
    my $op = $item->{"sign"}; # +  
    my $i = $item->{"item_no"};  
    my $offset = $i - $hunk->{"start2"} + $num_removed;  
    splice(@outlist,$offset,0,"$op\$fileref2[$i]");  
    $num_added++;
  }  
}

map {s/$/
/} @outlist; # add \n's  
print @outlist;

}

sub output_context_diff {  
  my ($hunk, $fileref1, $fileref2) = @_;  
  my @blocklist;

  print "***************\n";

  my ($range1 = $hunk->unified_range(1);  
  my ($range2 = $hunk->unified_range(2);  
  print "$range1 +$range2 @\n";

  my @outlist = @$fileref1[$low..$hi];  
  map {s/^/ /} @outlist; # assume it's just context

  foreach my $block (@{$hunk->{"blocks"}}) {  
    foreach my $item ($block->remove) {  
      my $op = $item->{"sign"}; # -  
      my $offset = $item->{"item_no"} - $low + $num_added;  
      @outlist[$offset] =~ s/^ /$op/;  
      $num_removed++;
    }  
    foreach my $item ($block->insert) {  
      my $op = $item->{"sign"}; # +  
      my $i = $item->{"item_no"};  
      my $offset = $i - $hunk->{"start2"} + $num_removed;  
      splice(@outlist,$offset,0,"$op\$fileref2[$i]");  
      $num_added++;
    }  
  }  
  map {s/$/
/} @outlist; # add \n's  
  print @outlist;

  }

Open Source Used In Umbrella SpeedTest production 1535
# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "**** $range1 ****\n";
my $low = $hunk->{"start1"};
my $hi = $hunk->{"end1"};
if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
  my @outlist = @$fileref1[$low..$hi];
  map {s/^/  /} @outlist; # assume it's just context
  foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
      $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
  }
  map {s/$/\n/} @outlist; # add \n's
  print @outlist;
}

print "--- $range2 ----\n";
$low = $hunk->{"start2"};
$hi = $hunk->{"end2"};
if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
  my @outlist = @$fileref2[$low..$hi];
  map {s/^/  /} @outlist; # assume it's just context
  foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
      $outlist[$item->{"item_no"} - $low] =~ s/^ /$op/;
    }
  }
  map {s/$/\n/} @outlist; # add \n's
  print @outlist;
}

sub context_range {
  # Generate a range of item numbers to print. Only print 1 number if the range
  # has only one item in it. Otherwise, it's 'start,end'
  my ($hunk, $flag) = @_;   # $start, $end
  my ($start, $end) = ($hunk->{"start$flag"}, $hunk->{"end$flag"});
  $start++; $end++;  # index from 1, not zero
  my $range = ($start < $end) ? "$start,$end" : $end;
  return $range;
}
sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length== 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk
# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign
- '+' for insert, '-' for remove
# item_no - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();
# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}
my $block = { "changes" => \@changes };
bless $block, $class;
$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

Open Source Used In Umbrella SpeedTest production 1537


# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;
$remove && $insert and return '!';
$remove and return '-';
$insert and return '+';
warn "unknown block type";
return '^'; # context block
}
# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }
# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }
} # end of package Block
Found in path(s):
* /opt/cola/permits/1222304463_1635545609.76/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff1.201/bin/cdiff.pl
No license file was found, but licenses were detected in source scan.
=head1 NAME
Algorithm::Diff - Compute `intelligent' differences between two files / lists
=head1 SYNOPSIS
require Algorithm::Diff;
# This example produces traditional 'diff' output:
my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );
$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
next if $diff->Same();
my $sep = '';
if( ! $diff->Items(2) ) {
printf "%d,%dd%d\n",
$diff->Get(qw( Min1 Max1 Max2 ));
} elsif( ! $diff->Items(1) ) {

Open Source Used In Umbrella SpeedTest production 1538


printf "%d,%d,%d\n",
$diff->Get(qw( Max1 Min2 Max2 ));
} else {
    $sep = "---\n";
    printf "%d,%d\n",
    $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
print "< $_" for $diff->Items(1);
print $sep;
print "> $_" for $diff->Items(2);

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs    = LCS( \@seq1, \@seq2 );
$lcshref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs  = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    {   MATCH     => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

traverse_balanced(
    \@seq1,
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the `longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
a b c d f g h j q z
```
```
a b c d e f g i j k r x y z
```
and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

```
a b c d f g j z
```

From there it's only a small step to get diff-like output:

```
e h i k q r x y
+ - + + - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider...
A naive approach might start by matching up the \texttt{C<a> and \texttt{C<b>} that appear at the beginning of each sequence, like this:

\begin{verbatim}
  a x b y c z p d q
  a b c a x b y c z
\end{verbatim}

This finds the common subsequence \texttt{C<a b c z>. But actually, the LCS is \texttt{C<a x b y c z>:

\begin{verbatim}
  a x b y c z p d q
  a b c a x b y c z
\end{verbatim}

or

\begin{verbatim}
  a x b y c z p d q
  a b c a x b y c z
\end{verbatim}

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: \texttt{C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.}

\texttt{C<LCS>}

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

\begin{verbatim}
  @lcs    = LCS( \@seq1, \@seq2 );
  $lcsref = LCS( \@seq1, \@seq2 );
\end{verbatim}

\texttt{C<LCS>} may be passed an optional third parameter; this is a CODE reference to a key generation function. See \texttt{L</KEY GENERATION FUNCTIONS>}. 

\begin{verbatim}
  @lcs    = LCS( \@seq1, \@seq2, \&keyGen, @args );
  $lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
\end{verbatim}
Additional parameters, if any, will be passed to the key generation routine.

=head2 \C<LCS_length>

This is just like \C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9\% compared to \C<LCS>.

=head2 \C<LCSidx>

Like \C<LCS> except it returns references to two arrays. The first array contains the indices into \@seq1 where the LCS items are located. The second array contains the indices into \@seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

\[
\begin{align*}
\text{my}( \text{idx1}, \text{idx2} ) &= \text{LCSidx}( \text{@seq1}, \text{@seq2} ); \\
\text{my @list1} &= \text{@seq1}[ \text{@idx1} ]; \\
\text{my @list2} &= \text{@seq2}[ \text{@idx2} ]; \\
\text{my @list3} &= \text{LCS}( \text{@seq1}, \text{@seq2} );
\end{align*}
\]

=head2 \C<new>

\$diff = Algorithm::Diff->new( \@seq1, \@seq2 );
\$diff = Algorithm::Diff->new( \@seq1, \@seq2, \%opts );

\C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over \I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

\[
\begin{align*}
\text{[ ]} & \quad \text{Encloses optional arguments} \\
: & \quad \text{Is followed by the default value for an optional argument} \\
| & \quad \text{Separates alternate return results}
\end{align*}
\]

Method summary:

\[
\begin{align*}
\text{\$obj} &= \text{Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );} \\
\text{\$pos} &= \text{\$obj->Next( [ \$count : 1 ] );} \\
\text{\$revPos} &= \text{\$obj->Prev( [ \$count : 1 ] );}
\end{align*}
\]
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that
is "reset" (not currently pointing at any hunk).

<bits = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs $cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same
as if no argument were passed in.

=over 4
=item C<Next>

$pos = $diff->Next();  # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5);  # Move backward 5 hunks

C<Next> moves the object to point at the next hunk. The object starts
out "reset", which means it isn't pointing at any hunk. If the object
is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk.
So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number
between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth
previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move
to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the
hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset();  # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);    # Move to the first hunk
$diff->Reset(-1);   # Move to the last hunk

C<Reset> returns the object, so, for example, you could use
C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

   $copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object
share most of their data, so making copies takes very little memory.
The copy maintains its own position (separate from the original), which
is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original
object's position. But C<Copy> takes an optional first argument to set the
new position, so the following three snippets are equivalent:

   $copy = $diff->Copy($pos);

   $copy = $diff->Copy();
   $copy->Reset($pos);

   $copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for
the copy. If you wish to change the base of the copy but leave
the position the same as in the original, here are two
equivalent ways:

   $copy = $diff->Copy();
   $copy->Base( 0 );

   $copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

   $copy = $diff->Copy(0);

   $copy = $diff->Copy()->Reset();

=item C<Diff>

   $bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are
different between the two sequences. It actually returns one of the follow 4 values:

=over 4
=itm Z<>3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=itm Z<>2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=itm Z<>1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=itm Z<>0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back
=itm C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=itm C<Items>

$count = $diff->Items(2);   @items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then \texttt{C<< $diff->Items(2) >>} will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both \texttt{C<< $diff->Items(1) >>} and \texttt{C<< $diff->Items(2) >>} will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

\begin{verbatim}
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
\end{verbatim}

=item C<Range>

\begin{verbatim}
$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
\end{verbatim}

\texttt{C<Range>} is like \texttt{C<Items>} except that it returns a list of \texttt{I<indices>} to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the \texttt{C<Base>} method. So, by default, the following two snippets return the same lists:

\begin{verbatim}
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
\end{verbatim}

You can also specify the base to use as the second argument. So the following two snippets \texttt{I<always>} return the same lists:

\begin{verbatim}
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
\end{verbatim}

=item C<Base>

\begin{verbatim}
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);
\end{verbatim}

\texttt{C<Base>} sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

\begin{verbatim}
$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );
\end{verbatim}
C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));

@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(-?\d+(min|max)[12])$/i

^((range[12]|same|diff|base))$/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS_length>.

$prep = prepare( \@seq1 );
for Si ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[Si] );
    # do something useful with @lcs
}

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

@diffs = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

    a b c e h j l m n p
    b c d e f j k l m r s t

would produce the following list:

    (    
        [ [ '-', 0, 'a' ] ],    
        [ [ '+', 2, 'd' ] ],    
        [ [ '-', 4, 'h' ],    
            [ '+', 4, 'f' ] ],    
        [ [ '+', 6, 'k' ] ],    
        [ [ '-', 8, 'n' ],    
            [ '-', 9, 'p' ],    
            [ '+', 9, 'r' ] ],
    )
[ '+', 10, 's' ],
[ '+', 11, 't' ] ],
)
There are five hunks here. The first hunk says that the C<a> at
position 0 of the first sequence should be deleted (C<->). The second
hunk says that the C<d> at position 2 of the second sequence should
be inserted (C<+>). The third hunk says that the C<h> at position 4
of the first sequence should be removed and replaced with the C<f>
from position 4 of the second sequence. And so on.
C<diff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<sdiff>
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:
same
same
before | after
old
< > new
It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.
Display instructions consist of three elements: A modifier indicator
(C<+>: Element added, C<->: Element removed, C<u>: Element unmodified,
C<c>: Element changed) and the value of the old and new elements, to
be displayed side-by-side.
An C<sdiff> of the following two sequences:
abcehjlmnp
bcdefjklmrst
results in

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C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```perl
my @a = qw( a b c e h j l m n p  );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );

# Returns:
# @a   @b   @a   @b
# start start values values
( 0, 0, # =
 0, 0, # a !
 1, 0, # b c = b c
 3, 2, # ! d
 3, 3, # e = e
 4, 4, # f ! h
 5, 5, # j = j
 6, 6, # ! k
 6, 7, # l m = l m
 8, 9, # n p ! r s t
10, 12, #
);
```
The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]$ through C<$diff[2] - 1$> of the first sequence and contains items C<$diff[1]$ through C<$diff[3] - 1$> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
#  1st pair     2nd pair
# of indices   of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0.-1> returns the empty list.
Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since \texttt{C<@diff[2..5]>} contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

\begin{verbatim}
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
\end{verbatim}

That is, we would delete item 0 ('a') from \texttt{@a}.

Since \texttt{C<@diff[4..7]>} contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

\begin{verbatim}
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );
\end{verbatim}

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).
Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[i]$> and C<$B[j]$> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[i]$> and arrow B is pointing to C<$B[j]$>. When this happens, C<traverse_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```
traverse_sequences(
    @seq1, @seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    }
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse_sequences> will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD_B> instead. Similarly if arrow B finishes first.

C<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.
<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```
traverse_sequences(
   \@seq1, \@seq2,
   {   MATCH => $callback_1,
       DISCARD_A => $callback_2,
       DISCARD_B => $callback_3,
   },
   undef,     # default key-gen
   $myArgument1,
   $myArgument2,
   $myArgument3,
);
```

<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 <traverse_balanced>

<traverse_balanced> is an alternative to <traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks supported by <traverse_sequences>, <traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(
   \@seq1, \@seq2,
   {   MATCH => $callback_1,
       DISCARD_A => $callback_2,
       DISCARD_B => $callback_3,
       CHANGE    => $callback_4,
   }
);
```
If no CHANGE callback is specified, traverse_balanced will map CHANGE events to DISCARD_A and DISCARD_B actions, therefore resulting in a similar behaviour as traverse_sequences with different order of events.

traverse_balanced might be a bit slower than traverse_sequences, noticeable only while processing huge amounts of data.

The sdiff function of this module is implemented as call to traverse_balanced.

traverse_balanced does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

package Person;

sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).
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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus

This version borrows some documentation and routine names from
Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/Manchester/Manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1222304463_1635545609.76/0/lib/Algorithm-Diff-1.201.orig-tar-gz/Algorithm-Diff-1.201/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.46, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
  version: '1.201'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
  * /opt/cola/permits/1222304463_1635545609.76/0/libalgorithm-diff-perl-1-201-orig-tar-gz/Algorithm-Diff-1.201/META.yml

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1.191 openssl 1.1.1n
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1.195 debianutils 4.11.2

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ASN.1 library for Python
------------------------
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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
-------
* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
```
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        ),
    )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
    id=123
    room=321
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
    print('{} is {}'.format(field, received_record[field]))
    id is 123
    room is 321
    house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

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* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/native/__main__.py
* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/native/test_decoder.py
* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/cer/encoder.py

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ASN.1 library for Python

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

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Abstract Syntax Notation One (`ASN.1 <https://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

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

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers
and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
'discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.
In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocolbuffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
---------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

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   :maxdepth: 2

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Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

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-------

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Getting help
-------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* `/opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/docs/source/contents.rst`

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1.198 linux-libc-dev 5.10.106-1

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

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(For example, a function in a library to compute square roots has
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#pragma once

#include <cstdint>

namespace crypto {

    // AES implementation

    // AES-128 key schedule
    void aes_schedule(const uint8_t key[16]);

    // AES encryption
    void aes_encrypt(const uint8_t plaintext[16], const uint8_t key[16], uint8_t ciphertext[16]);

    // AES decryption
    void aes_decrypt(const uint8_t ciphertext[16], const uint8_t key[16], uint8_t plaintext[16]);

} // namespace crypto
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1.217 six 1.16.0

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# 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%p%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 modify it under the terms of the GNU General Public License\n# as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.\n# This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.\n# You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 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:
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] }

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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"):

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):
  fi:
fi:
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:
    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, "; 
") fi:
od:
    fprintf(fd, " int global_test; /* used to test when the sum can be stopped */");

fprintf(fd, "\n");
fprintf(fd, " /* Logging */");
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)))
")
else fprintf(fd, "  if (MPFR_UNLIKELY (v==0))
")
fi:
fprintf(fd, "    {
")
fprintf(fd, "      MPFR_SET_NAN (res);
")
fprintf(fd, "      MPFR_RET_NAN;
")
fprintf(fd, "    }
")
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)))
")
  else fprintf(fd, "  if (MPFR_UNLIKELY (u==0))
")
  fi:
if (whattype(f0) = 'integer')
then
  fprintf(fd, "    {
")
  fprintf(fd, "      return mpfr_set_si (res, %a, rnd);
", f0)
  fprintf(fd, "    }
")
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, "    {
")
  fprintf(fd, "      return mpfr_%a0 (res, rnd);
", name)
  fprintf(fd, "    }
")
fi:
if (type=FUNCTION_SERIES)
then
  fprintf(fd, "  if (MPFR_UNLIKELY (MPFR_IS_INF (x)))
")
  fprintf(fd, "    {
")
  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))
")
      else fprintf(fd, "      else
")
    fi:
    fprintf(fd, "        {
")
    if (i<0) then f0 := "m" else f0 := "p" fi:
    if (fofx <> _f(x))
      then fprintf(fd, "          return mpfr_set_si (res, %a, rnd);
", f0)
      elif (f0 = infinity) or (f0 = -infinity)
        then
          MPFR_SET_INF(res);
        if (f0>0)
          then fprintf(fd, "          MPFR_SET_POS(res);
")
          else fprintf(fd, "          MPFR_SET_NEG(res);
")
  fi:
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"):

if ( (type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL) )
then  fprintf(fd, " /* FIXME: special case for large values of |x| */\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])
  fprintf(fd, "  mpfr_init (s);\n"):
  fprintf(fd, "  /* ZIV' loop */
"):
  fprintf(fd, "    for (;;)
"):
    fprintf(fd, "      {
"):
      fprintf(fd, "        {
"):
        fprintf(fd, "          for i from 1 to nops(exponents)-1 do
"):
          fprintf(fd, "            mpfr_init (tmp);\n"):
          fprintf(fd, "          mpfr_init (x%d);\n", exponents[i])
          fprintf(fd, "        od:
"):
        fprintf(fd, "      }
"):
      fprintf(fd, "    }
"):
  fprintf(fd, "  }
"):
  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:
  fprintf(fd, "  mpfr_init (s);\n"):
  fprintf(fd, "  /* ZIV' loop */
"):
  fprintf(fd, "    for (;;)
"):
    fprintf(fd, "      {
"):
      fprintf(fd, "        {
"):
        fprintf(fd, "          for i from 1 to nops(exponents)-1 do
"):
          fprintf(fd, "            mpfr_init (tmp);\n"):
          fprintf(fd, "          mpfr_init (x%d);\n", exponents[i])
          fprintf(fd, "        od:
"):
        fprintf(fd, "      }
"):
      fprintf(fd, "    }
"):
    fprintf(fd, "  }
"):
  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:
  fprintf(fd, "  mpfr_init (s);\n"):
  fprintf(fd, "  /* ZIV' loop */
"):
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 (x1, wprec);\n"):
        fprintf(fd, "      if(mpfr_get_prec (x) > wprec)\n"):
        fprintf(fd, "        mpfr_set_prec (x1, wprec);
"):
        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);
", 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);
"):
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} \leftarrow 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);
   fi:

   fprintf(fd, " mpfr_add (s, s, tip%d, MPFR_RNDN);
   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);
      elif (type = FUNCTION_SERIES) and (c <> 1)
      then
         fprintf(fd, " mpfr_mul_si (x%d, x%d, %d, MPFR_RNDN);
         var1 := sprintf("x%d", d):
         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.
      name, c):
   if (type = CONSTANT_SERIES)
   then
      fprintf(fd, " mpfr_%a_cste (x%d, MPFR_RNDN);
      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);
      error_counter := init_error_counter("tmp", error_counter):
      fprintf(fd, " mpfr_mul (x%d, tmp, x%d, MPFR_RNDN);
      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);
      var1 := sprintf("x%d", d):
   fi:
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 */
      k = %d;
      for (;;)
        {
          if (init_cond[1][1] <> 0) then fprintf(fd, "          k += %d;\n", init_cond[1][1]) fi:
          error_in_loop := error_in_loop + 1 + find_in_error_counter(var1, error_counter):
          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"): var1 := sprintf("x%d", i0, i0, d):
                error_in_loop := error_in_loop + 1 + find_in_error_counter(var1, error_counter):
              else
                var := sprintf("tip%d", i0):
                fprintf(fd, "    mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n"): var1 := sprintf("x%d", i0, i0, d):
                error_in_loop := error_in_loop + 1 + find_in_error_counter(var1, error_counter):
            fi:
            fprintf(fd, ");\n":
        fi:
      fi:
    fi:
  fi:
fi:
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);
          mpfr_div_si (tip%d, tip%d, v, MPFR_RNDN);
          error_in_loop := error_in_loop + 2:
    else
      required_mulsi := { op(required_mulsi), d }:
      fprintf(fd, ":
          mpfr_mul_si%d (tip%d, tip%d, u, MPFR_RNDN);
          mpfr_div_si%d (tip%d, tip%d, v, MPFR_RNDN);
          error_in_loop := error_in_loop + d:
      fi
  fi
  fprintf(fd, "\n          mpfr_add (s, s, tmp, MPFR_RNDN)\n":)
else
  required_divsi := { op(required_divsi), d }:
  fprintf(fd, "\n          mpfr_div_si%d (tip%d, tip%d, s2/s1, MPFR_RNDN)\n":)
  error_in_loop := error_in_loop + d:
fi
fi:
var := sprintf("tip%d", i0):

maxofti := 0: # store the maximum of the error counters of the initial conditions
for i from 1 to nc do
  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, "\n          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
```c
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), 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 |tk-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 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))
", i0):
    fprintf(fd, "                    && ( MPFR_IS_ZERO(tip%d)
", i0):
    fprintf(fd, "                         || (MPFR_EXP(tip%d) + (mp_exp_t)prec + %d <= MPFR_EXP(s))
", i0, guard_bits):
    fprintf(fd, "                         )
"):
    fprintf(fd, "                    );
"):
    fprintf(fd, "          if ("
":
for i from 1 to nc do
    fprintf(fd, "test%d && ", i0, guard_bits):
    od:
fp
```
fprintf(fd, "global_test)\n");
fprintf(fd, "            break;
");
fprintf(fd, "        }

######################################################
############## Ziv' loop: testing final ##############
######################################################
fprintf(fd, "      MPFR_LOG_MSG (("Truncation rank: %%lu\n", k));

fprintf(fd, "      err = ERRORANALYSISISK + conditionNumber - MPFR_GET_EXP (s);\n\n");
fprintf(fd, "/\n* err is the number of bits lost due to the evaluation error */\n\n");
fprintf(fd, "/\n* wprec-(prec+1): number of bits lost due to the approximation error */\n\n");
fprintf(fd, "      MPFR_LOG_MSG (("Roundoff error: %P\n", err));\n\n");
fprintf(fd, "      MPFR_LOG_MSG (("Approxim error: %P\n", wprec-prec-1));\n\n");
fprintf(fd, "      if (wprec < err+1)\n\n");
fprintf(fd, "        correct_bits=0;\n\n");
fprintf(fd, "      else\n\n");
fprintf(fd, "      if (wprec < err+prec+1)\n\n");
fprintf(fd, "        correct_bits = wprec - err - 1;\n\n");
fprintf(fd, "      else\n\n");
fprintf(fd, "      correct_bits = prec;\n\n");
fprintf(fd, "    }\n\n");
fprintf(fd, "if (MPFR_LIKELY (MPFR_CAN_ROUND (s, correct_bits, MPFR_PREC (y), rnd))\n\n");
fprintf(fd, "    break;\n\n");
fprintf(fd, "    if (correct_bits == 0)\n\n");
fprintf(fd, "    {\n\n");
fprintf(fd, "      assumed_exponent *= 2;\n\n");
fprintf(fd, "      MPFR_LOG_MSG (("Not a single bit correct (assumed_exponent=%%lu)\n",\n\n");
fprintf(fd, "      assumed_exponent));\n\n");
fprintf(fd, "      wprec = prec + ERRORANALYSISISK + conditionNumber + assumed_exponent;\n\n");
fprintf(fd, "    }\n\n");
fprintf(fd, "    else\n\n");
fprintf(fd, "    if (correct_bits < prec)\n\n");
fprintf(fd, "    { /* The precision was badly chosen */\n\n");
fprintf(fd, "      MPFR_LOG_MSG (("Bad assumption on the exponent of %s(x)\n", 0));\n\n");
fprintf(fd, "      MPFR_LOG_MSG (("E=%%ld)\n", (long) MPFR_GET_EXP (s));\n\n");
fprintf(fd, "      wprec = prec + err + 1;\n\n");
fprintf(fd, "    }\n\n");
fprintf(fd, "    else\n\n");
fprintf(fd, "    { /* We are really in a bad case of the TMD */\n\n");
fprintf(fd, "      MPFR_ZIV_NEXT (loop, prec);\n\n");
fprintf(fd, "    }\n\n");
fprintf(fd, "    /* We update wprec */\n\n");
fprintf(fd, "    /* We assume that K will not be multiplied by more than 4 */\n\n");
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"):
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:
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},\n", var, find_in_error_counter(var, error_counter));
    if (i <> nc) then printf("\n\n", fi):
od:
printf("Each step of the loop adds another \n", error_in_loop):
if (additional_error <> 0)
    then printf("Moreover, the multiplication by %a adds another \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 \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)\n", a)
    elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (prec)\n")
    else sprintf("MPFR_INT_CEIL_LOG2 (prec - %d)\n", -a)
    fi:
if (b > 0) then var := sprintf("%s + %d\n", 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)\n", a)
    elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (k)\n")
    else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)\n", -a)
    fi:
if (b > 0) then var := sprintf("%s + %d\n", var, b+2)
    fi:
var := sprintf("sed -n -i 's/ERRORANALYSISISK/%s/g;p' %s", var, filename):
    system(var):
if (a > 0)
    then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)\n", a)
    elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (k)\n")
    else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)\n", -a)
    fi:
var := sprintf("%s + %d\n", 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) = (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 ******************************/
",
name_of_file):
genenerateStraightforwardAlgo(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 ******************************/
",
name_of_file):
genenerateStraightforwardAlgo(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 ******************************/
",
name_of_file):
genenerateStraightforwardAlgo(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 ***********************/
",
name_of_file):
genenerateStraightforwardAlgo(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 ***********************/
",
name_of_file):
genenerateStraightforwardAlgo(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 ***********************/
",
name_of_file):
genenerateStraightforwardAlgo(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 ***********************/
",
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 ******************************/
", 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 ******************************/
", 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 ******************************/
", 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 ******************************/
", 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:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n************************** Implmentation de %s ******************************/
", 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 ******************************/
", 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 ******************************/
", name_of_file):
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\nsequelizefontSize**Implementation 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\nsequelizefontSize**Implementation 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\nsequelizefontSize**Implementation 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\nsequelizefontSize**Implementation 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\nsequelizefontSize**Implementation 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************************** Implementation 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************************** Implementation 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************************** Implementation 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)=0 \}:
name_of_function := test8c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n************************** Implementation 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:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n************************** Implementation 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************************** Implementation 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************************** Implementation de %s **************************\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

# 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);
# else
#     n:=aofn;
# fi
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:
\[ a(n+d) = c \cdot s1(n)/s1(n+d) \cdot s2(n+d)/s2(n) \cdot p(n)/q(n) \cdot a(n) \]

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:
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, res[i][2]]]:
end:
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
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+1]]:
end:
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);
", 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
# 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
        fprintf(fd, "%smpfr_mul_si (%s, %s", indent, var1, var):
      fi:
    fi:
   fi:
return error \("generate_multiply_poly: an integer can be factored out of %1", p, q):
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, "\%smfr_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("\nvoid\n"): printf("\nmprf_%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:

1.220 libxdmcp 1.1.2-3
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Author:  Keith Packard, MIT X Consortium

1.221 node.js 14.19.1-deb-1nodesource

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'openssl/crypto/ocsp/ocsp_lib.c',
'openssl/crypto/ocsp/ocsp_prn.c',
'openssl/crypto/ocsp/ocsp_srv.c',

Open Source Used In Umbrella SpeedTest production 1911
'openssl/crypto/ocsp/ocsp_vfy.c',
'openssl/crypto/ocsp/v3_ocsp.c',
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'openssl/crypto/ocsp/pem_info.c',
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'openssl/crypto/ocsp/pem_oth.c',
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'openssl/crypto/rand/rand_lib.c',
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'openssl/crypto/rand/rand_vms.c',
'openssl/crypto/rand/rand_win.c',

Open Source Used In Umbrella SpeedTest production 1912
openssl/crypto/rand/randfile.c,
openssl/crypto/rc2/rc2_cbc.c,
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openssl/crypto/rc2/rc2_skey.c,
openssl/crypto/rc2/rc2cfb64.c,
openssl/crypto/rc2/rc2ofb64.c,
openssl/crypto/rc4/rc4_cbc.c,
openssl/crypto/rc4/rc4_skey.c,
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openssl/crypto/ripemd/rmd_one.c,
openssl/crypto/rsa/rsa_ameth.c,
openssl/crypto/rsa/rsa_asn1.c,
openssl/crypto/rsa/rsa_chk.c,
openssl/crypto/rsa/rsa_crpt.c,
openssl/crypto/rsa/rsa_depr.c,
openssl/crypto/rsa/rsa_err.c,
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openssl/crypto/rsa/rsa_pk1.c,
openssl/crypto/rsa/rsa_pmeth.c,
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openssl/crypto/siphash/siphash_ameth.c,
openssl/crypto/siphash/siphash_pmeth.c,
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openssl/crypto/sm2/sm2_pmeth.c,
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'openssl/crypto/store/store_register.c',
'openssl/crypto/store/store_strings.c',
'openssl/crypto/threads_none.c',
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'openssl/crypto/threads_win.c',
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'openssl/crypto/ts/ts_err.c',
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'openssl/crypto/whrlpool/wp_dgst.c',
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'openssl/crypto/x509/x509_cmp.c',
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'openssl/crypto/x509/x509_err.c',
'openssl/crypto/x509/x509_ext.c',
'openssl/crypto/x509/x509_lu.c',

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Open Source Used In Umbrella SpeedTest production 1914
'openssl/crypto/x509/x509_meth.c',
'openssl/crypto/x509/x509_obj.c',
'openssl/crypto/x509/x509_r2x.c',
'openssl/crypto/x509/x509_req.c',
'openssl/crypto/x509/x509_set.c',
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'openssl/crypto/x509/x509_txt.c',
'openssl/crypto/x509/x509_v3.c',
'openssl/crypto/x509/x509_vfy.c',
'openssl/crypto/x509/x509_vpm.c',
'openssl/crypto/x509/x509set.c',
'openssl/crypto/x509/x509name.c',
'openssl/crypto/x509/x509req.c',
'openssl/crypto/x509/x509spki.c',
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'openssl/crypto/x509/x_all.c',
'openssl/crypto/x509/x_attrib.c',
'openssl/crypto/x509/x_crl.c',
'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
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'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_cpol.c',
'openssl/crypto/x509v3/v3_crl.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_ext�.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',

Open Source Used In Umbrella SpeedTest production 1915
'openssl/ssl/d1_msg.c',
'openssl/ssl/d1_srp.c',
'openssl/ssl/methods.c',
'openssl/ssl/packet.c',
'openssl/ssl/pqueue.c',
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'openssl/ssl/record/rec_layer_s3.c',
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Open Source Used In Umbrella SpeedTest production 1917
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'openssl/crypto/bio/bss_conn.c',
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Open Source Used In Umbrella SpeedTest production 1919
'openssl/crypto/bio/bss_fd.c',
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'openssl/crypto/camellia/cmll_ofb.c',
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Open Source Used In Umbrella SpeedTest production 1920
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openssl/crypto/des/ech3_enc.c,
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'openssl/crypto/engine/tb_dh.c',
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'openssl/crypto/engine/tb_dsa.c',
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'openssl/crypto/engine/tb_pkmeth.c',
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Open Source Used In Umbrella SpeedTest production 1924
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'openssl/crypto/rc2/rc2_ofb64.c',
'openssl/crypto/ripemd/rmd_dgst.c',
'openssl/crypto/ripemd/rmd_one.c',
'openssl/crypto/rsa_rsa_ameth.c',
'openssl/crypto/rsa_rsa_asm1.c',
'openssl/crypto/rsa_rsa_chk.c',
'openssl/crypto/rsa_rsa_crypt.c',
'openssl/crypto/rsa_rsa_depr.c',
'openssl/crypto/rsa_rsa_err.c',
'openssl/crypto/rsa_rsa_gen.c',
'openssl/crypto/rsa_rsa_lib.c',
'openssl/crypto/rsa_rsa_meth.c',
'openssl/crypto/rsa_rsa_mp.c',
'openssl/crypto/rsa_rsa_none.c',
'openssl/crypto/rsa_rsa_oaep.c',
'openssl/crypto/rsa_rsa_ossl.c',
'openssl/crypto/rsa_rsa_pk1.c',
'openssl/crypto/rsa_rsa_pmeth.c',
'openssl/crypto/rsa_rsa_prn.c',
'openssl/crypto/rsa_rsa_pss.c',
'openssl/crypto/rsa_rsa_saos.c',
'openssl/crypto/rsa_rsa_sign.c',
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'openssl/crypto/rsa_rsa_x931.c',
'openssl/crypto/rsa_rsa_x931g.c',
'openssl/crypto/seed/seed.c',
'openssl/crypto/seed/seed_cbc.c',
'openssl/crypto/seed/seed_ecb.c',
'openssl/crypto/seed/seed_ofb.c',
'openssl/crypto/sha/sha1_one.c',
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'openssl/crypto/sm2/sm2_crypt.c',
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'openssl/crypto/sm2/sm2_pmeth.c',
'openssl/crypto/sm2/sm2_sign.c',
'openssl/crypto/sm3/m_sm3.c',
'openssl/crypto/sm3/sm3.c',

---

Open Source Used In Umbrella SpeedTest production 1955
'openssl/crypto/x509/x509_set.c',
'openssl/crypto/x509/x509_trs.c',
'openssl/crypto/x509/x509_txt.c',
'openssl/crypto/x509/x509_v3.c',
'openssl/crypto/x509/x509_vfy.c',
'openssl/crypto/x509/x509_vpm.c',
'openssl/crypto/x509/x509cset.c',
'openssl/crypto/x509/x509name.c',
'openssl/crypto/x509/x509rset.c',
'openssl/crypto/x509/x509spki.c',
'openssl/crypto/x509/x509type.c',
'openssl/crypto/x509/x_all.c',
'openssl/crypto/x509/x_attrib.c',
'openssl/crypto/x509/x_crl.c',
'openssl/crypto/x509/x_exten.c',
'openssl/crypto/x509/x_name.c',
'openssl/crypto/x509/x_pubkey.c',
'openssl/crypto/x509/x_req.c',
'openssl/crypto/x509/x_x509.c',
'openssl/crypto/x509/x_x509a.c',
'openssl/crypto/x509v3/pcy_cache.c',
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
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'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_cpol.c',
'openssl/crypto/x509v3/v3_cpol.c',
'openssl/crypto/x509v3/v3_crl.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_extku.c',
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',
'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',
'openssl/crypto/x509v3/v3_ncons.c',
'openssl/crypto/x509v3/v3_pci.c',
'openssl/crypto/x509v3/v3_pcia.c',
'openssl/crypto/x509v3/v3_pcons.c',

Open Source Used In Umbrella SpeedTest production 1957
'openssl/crypto/x509v3/v3_pku.c',
'openssl/crypto/x509v3/v3_pmaps.c',
'openssl/crypto/x509v3/v3_prn.c',
'openssl/crypto/x509v3/v3_purp.c',
'openssl/crypto/x509v3/v3_skey.c',
'openssl/crypto/x509v3/v3_sxnet.c',
'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',
'openssl/engines/e_capi.c',
'openssl/engines/e_padlock.c',
]

'openssl_sources_BSD-x86_64': [
    './config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aesni-sha1-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aesni-sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aesni-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx2.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
    './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
    './config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/poly1305/poly-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha256-mb-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/whirlpool/wp-x86_64.s',
    './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
    './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
]

'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_PIC',
    'OPENSSL_CPUID_OBJ',
]
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'X25519_ASM',
'POLY1305_ASM',
],
'openssl_cflags_BSD-x86_64': [
'-Wa,--noexecstack',
'-Wall -O3',
'-pthread',
'-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
'-pthread',
],
'include_dirs': [
'.',
'./include',
'./crypto',
'./crypto/include/internal',
],
'defines': ['<@(openssl_defines_BSD-x86_64)'],
'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}

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'openssl/apps/sess_id.c',]
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, 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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All Python releases are Open Source (see http://www.opensource.org for
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<table>
<thead>
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<th>Derived from</th>
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      'L_ENDIAN',
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      '-pthread',
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    ],
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      '-pthread',
    ],
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      'openssl/apps/dgst.c',
      'openssl/apps/dhparam.c',
      'openssl/apps/dsa.c',
      'openssl/apps/dsaparam.c',
      'openssl/apps/enc.c',
      'openssl/apps/engine.c',
```

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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---

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'OPENSSL_PIC',
],
'openssl_cflags_BSD-x86_64': [  '-Wall -O3',  '-pthread',  '-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [  '-pthread',
],
'openssl/apps/sess_id.c',
'openssl/apps/smime.c',
'openssl/apps/speed.c',
'openssl/apps/spkac.c',
'openssl/apps/srp.c',
'openssl/apps/storeutl.c',
'openssl/apps/ts.c',
'openssl/apps/verify.c',
'openssl/apps/version.c',
'openssl/apps/x509.c',
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'openssl/apps/apps.c',
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'defines': ['<@(openssl_defines_BSD-x86_64)>'],
'include_dirs': [
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'cflags' : ['<@(openssl_cflags_BSD-x86_64)>'],
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'sources': ['<@(openssl_cli_srcs_BSD-x86_64)>'],
}
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===

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lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
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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_credential.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.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
slave/kpropd_rpc.c
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1.236 coreutils 8.32 4+b1

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Version 3, 29 June 2007
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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.242 ipaddr 2.2.0

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

Python was created in the early 1990s by Guido van Rossum at Stichting 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 that included the contextlib module.

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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:
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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1.248 libsemanage 3.1-1

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* Optimised ANSI C code for the Rijndael cipher (now AES)
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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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.

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