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# SoftEther の導入

VPNパッケージの SoftEther<sup>1)</sup> を導入してみます。

元ネタは、こちらのブログのエントリです。

<http://blog.sahal.info/post/80025964383/installing-softether-server-software-on-debian-and>

## パッケージのセットアップ

### 追加パッケージの導入

[SDカードを利用したストレージ領域の拡張](#) の方法で開発環境を導入したMA-E3xxの実機で、パッケージをビルドします。

“debbuild” というコマンドを使用しますので“devscripts” というパッケージを導入します。

```
user1@plum:~$ sudo apt-cache search devscript
[sudo] password for user1:
devscripts - scripts to make the life of a Debian Package maintainer easier
<---
javahelper - Helper scripts for packaging Java programs
mozilla-devscripts - Development scripts used by Mozilla's addons packages
deb-gview - GNOME viewer for .deb package files and contents
debget - download/compile source and binary Debian packages
devscripts-el - Emacs wrappers for the commands in devscripts
haskell-devscripts - Tools to help Debian developers build Haskell packages
svn-buildpackage - helper programs to maintain Debian packages with
Subversion
user1@plum:~$
```

```
user1@plum:~$ sudo apt-get install devscripts
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  at dctrl-tools diffstat distro-info-data dput hardening-includes libapt-
pkg-perl libarchive-zip-perl
  libauthen-sasl-perl libautodie-perl libclass-accessor-perl libclone-perl
libcommon-sense-perl
  libdigest-hmac-perl libdistro-info-perl libemail-valid-perl libencode-
locale-perl libexporter-lite-perl
  libfile-basedir-perl libfile-listing-perl libfont-afm-perl libhtml-form-
perl libhtml-format-perl
  libhtml-parser-perl libhtml-tagset-perl libhtml-tree-perl libhttp-cookies-
perl libhttp-daemon-perl
  libhttp-date-perl libhttp-message-perl libhttp-negotiate-perl libio-html-
perl libio-pty-perl
```

```
libio-socket-inet6-perl libio-socket-ssl-perl libio-string-perl libio-
stringy-perl libipc-run-perl
libipc-system-simple-perl libjson-perl libjson-xs-perl liblist-moreutils-
perl liblwp-mediatypes-perl
liblwp-protocol-https-perl libmailtools-perl libnet-dns-perl libnet-
domain-tld-perl libnet-http-perl
libnet-ip-perl libnet-smtp-ssl-perl libnet-ssleay-perl libparse-
debcontrol-perl
libparse-debianchangelog-perl libperl-io-gzip-perl libsocket6-perl libsub-
identify-perl libsub-name-perl
libtext-levenshtein-perl libtie-ixhash-perl liburi-perl libwww-perl
libwww-robotrules-perl lintian
patchutils python3-chardet python3-debian python3-magic python3-six
tlutils wdiff
Suggested packages:
default-mta mail-transport-agent debtags bsd-mailx mailx cvs-buildpackage
devscripts-el gnuplot
libfile-desktopentry-perl libterm-size-perl libyaml-syck-perl mutt svn-
buildpackage w3m debian-keyring
equivs libcrypt-ssleay-perl libsoap-lite-perl mini-dinstall python-bzrlib
libgssapi-perl libdata-dump-perl
libhtml-template-perl libxml-simple-perl libauthen-ntlm-perl binutils-
multiarch libtext-template-perl
The following NEW packages will be installed:
at dctrl-tools devscripts diffstat distro-info-data dput hardening-
includes libapt-pkg-perl
libarchive-zip-perl libauthen-sasl-perl libautodie-perl libclass-accessor-
perl libclone-perl
libcommon-sense-perl libdigest-hmac-perl libdistro-info-perl libemail-
valid-perl libencode-locale-perl
libexporter-lite-perl libfile-basedir-perl libfile-listing-perl libfont-
afm-perl libhtml-form-perl
libhtml-format-perl libhtml-parser-perl libhtml-tagset-perl libhtml-tree-
perl libhttp-cookies-perl
libhttp-daemon-perl libhttp-date-perl libhttp-message-perl libhttp-
negotiate-perl libio-html-perl
libio-pty-perl libio-socket-inet6-perl libio-socket-ssl-perl libio-string-
perl libio-stringy-perl
libipc-run-perl libipc-system-simple-perl libjson-perl libjson-xs-perl
liblist-moreutils-perl
liblwp-mediatypes-perl liblwp-protocol-https-perl libmailtools-perl
libnet-dns-perl libnet-domain-tld-perl
libnet-http-perl libnet-ip-perl libnet-smtp-ssl-perl libnet-ssleay-perl
libparse-debcontrol-perl
libparse-debianchangelog-perl libperl-io-gzip-perl libsocket6-perl libsub-
identify-perl libsub-name-perl
libtext-levenshtein-perl libtie-ixhash-perl liburi-perl libwww-perl
libwww-robotrules-perl lintian
patchutils python3-chardet python3-debian python3-magic python3-six
tlutils wdiff
```

```
0 upgraded, 71 newly installed, 0 to remove and 0 not upgraded.
Need to get 4899 kB of archives.
After this operation, 16.2 MB of additional disk space will be used.
Do you want to continue [Y/n]? y
Get:1 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libnet-ssleay-perl
armhf 1.55-1 [305 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libio-socket-ssl-perl
all 1.76-2ubuntu1 [51.4 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libnet-smtp-ssl-perl
all 1.01-3 [5948 B]
Get:4 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libmailtools-perl all
2.12-1 [84.1 kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libdigest-hmac-perl
all 1.03+dfsg-1 [12.1 kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libnet-ip-perl all
1.26-1 [31.5 kB]
Get:7 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libsocket6-perl armhf
0.23-1build3 [21.4 kB]
Get:8 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libio-socket-inet6-
perl all 2.69-2 [14.3 kB]
Get:9 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libnet-dns-perl armhf
0.68-1.2 [290 kB]
Get:10 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libnet-domain-tld-
perl all 1.69-1 [10.9 kB]
Get:11 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libemail-valid-perl
all 0.190-1 [16.3 kB]
Get:12 http://ports.ubuntu.com/ubuntu-ports/ saucy/main at armhf
3.1.13-2ubuntu2 [35.3 kB]
Get:13 http://ports.ubuntu.com/ubuntu-ports/ saucy/main dctrl-tools armhf
2.23 [102 kB]
Get:14 http://ports.ubuntu.com/ubuntu-ports/ saucy-updates/main devscripts
armhf 2.13.4ubuntu0.1 [846 kB]
Get:15 http://ports.ubuntu.com/ubuntu-ports/ saucy/main diffstat armhf
1.56-1 [22.0 kB]
Get:16 http://ports.ubuntu.com/ubuntu-ports/ saucy-updates/main distro-info-
data all 0.16ubuntu0.1 [4190 B]
Get:17 http://ports.ubuntu.com/ubuntu-ports/ saucy/main dput all
0.9.6.3+nmu2ubuntu1 [37.3 kB]
Get:18 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libapt-pkg-perl
armhf 0.1.29 [81.7 kB]
Get:19 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libarchive-zip-perl
all 1.30-7 [90.1 kB]
Get:20 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libsub-identify-perl
armhf 0.04-1build2 [8742 B]
Get:21 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libautodie-perl all
2.20-1 [63.2 kB]
Get:22 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libsub-name-perl
armhf 0.05-1build3 [9274 B]
Get:23 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libclass-accessor-
perl all 0.34-1 [26.0 kB]
Get:24 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libclone-perl armhf
```

```
0.34-1 [11.4 kB]
Get:25 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libcommon-sense-perl
all 3.6-1 [21.6 kB]
Get:26 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libdistro-info-perl
all 0.11 [5024 B]
Get:27 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libencode-locale-
perl all 1.03-1 [12.4 kB]
Get:28 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libexporter-lite-
perl all 0.02-2 [8924 B]
Get:29 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libfile-basedir-perl
all 0.03-1fakesync1 [10.5 kB]
Get:30 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhttp-date-perl
all 6.02-1 [10.4 kB]
Get:31 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libfile-listing-perl
all 6.04-1 [9774 B]
Get:32 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libfont-afm-perl all
1.20-1 [14.3 kB]
Get:33 http://ports.ubuntu.com/ubuntu-ports/ saucy/main liburi-perl all
1.60-1 [89.6 kB]
Get:34 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhtml-tagset-perl
all 3.20-2 [13.5 kB]
Get:35 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhtml-parser-perl
armhf 3.71-1 [96.3 kB]
Get:36 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libio-html-perl all
1.00-1 [15.7 kB]
Get:37 http://ports.ubuntu.com/ubuntu-ports/ saucy/main liblwp-mediatypes-
perl all 6.02-1 [21.7 kB]
Get:38 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhttp-message-perl
all 6.06-1 [78.7 kB]
Get:39 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhtml-form-perl
all 6.03-1 [23.5 kB]
Get:40 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhtml-tree-perl
all 5.02-1 [213 kB]
Get:41 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhtml-format-perl
all 2.10-1 [40.6 kB]
Get:42 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhttp-cookies-perl
all 6.00-2 [23.3 kB]
Get:43 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhttp-daemon-perl
all 6.01-1 [17.0 kB]
Get:44 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libhttp-negotiate-
perl all 6.00-2 [13.4 kB]
Get:45 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libio-pty-perl armhf
1:1.08-1build3 [35.8 kB]
Get:46 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libio-string-perl
all 1.08-2 [12.0 kB]
Get:47 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libio-stringy-perl
all 2.110-5 [93.5 kB]
Get:48 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libipc-run-perl all
0.92-1 [101 kB]
Get:49 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libipc-system-
```

```
simple-perl all 1.21-1 [27.7 kB]
Get:50 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libjson-perl all
2.59-1 [93.5 kB]
Get:51 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libjson-xs-perl
armhf 2.340-1 [81.6 kB]
Get:52 http://ports.ubuntu.com/ubuntu-ports/ saucy/main liblist-moreutils-
perl armhf 0.33-1build2 [46.1 kB]
Get:53 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libnet-http-perl all
6.06-1 [24.2 kB]
Get:54 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libwww-robotrules-
perl all 6.01-1 [14.1 kB]
Get:55 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libwww-perl all
6.05-1 [155 kB]
Get:56 http://ports.ubuntu.com/ubuntu-ports/ saucy/main liblwp-protocol-
https-perl all 6.04-1 [7190 B]
Get:57 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libparse-debcontrol-
perl all 2.005-4 [24.2 kB]
Get:58 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libparse-
debianchangelog-perl all 1.2.0-1ubuntu1 [54.0 kB]
Get:59 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libperlio-gzip-perl
armhf 0.18-1build2 [14.1 kB]
Get:60 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libtext-levenshtein-
perl all 0.06~01-2 [6476 B]
Get:61 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libtie-ixhash-perl
all 1.23-1 [11.7 kB]
Get:62 http://ports.ubuntu.com/ubuntu-ports/ saucy/main hardening-includes
all 2.3ubuntu1 [15.0 kB]
Get:63 http://ports.ubuntu.com/ubuntu-ports/ saucy/main patchutils armhf
0.3.2-2 [70.4 kB]
Get:64 http://ports.ubuntu.com/ubuntu-ports/ saucy/main tlutils armhf
1.37-2ubuntu1 [54.0 kB]
Get:65 http://ports.ubuntu.com/ubuntu-ports/ saucy/main lintian all
2.5.19ubuntu1 [694 kB]
Get:66 http://ports.ubuntu.com/ubuntu-ports/ saucy/main python3-chardet all
2.0.1-1 [169 kB]
Get:67 http://ports.ubuntu.com/ubuntu-ports/ saucy/main python3-six all
1.3.0-1 [6494 B]
Get:68 http://ports.ubuntu.com/ubuntu-ports/ saucy/main python3-debian all
0.1.21+nmu2ubuntu1 [39.8 kB]
Get:69 http://ports.ubuntu.com/ubuntu-ports/ saucy/main wdiff armhf 1.1.2-1
[70.9 kB]
Get:70 http://ports.ubuntu.com/ubuntu-ports/ saucy/main libauthen-sasl-perl
all 2.1500-1 [53.2 kB]
Get:71 http://ports.ubuntu.com/ubuntu-ports/ saucy-updates/main python3-
magic all 5.11-2ubuntu4.1 [4842 B]
Fetched 4899 kB in 29s (168 kB/s)
Extracting templates from packages: 100%
Selecting previously unselected package libnet-ssleay-perl.
(Reading database ... 28604 files and directories currently installed.)
Unpacking libnet-ssleay-perl (from ../libnet-ssleay-perl_1.55-1_armhf.deb)
...
```

```
Selecting previously unselected package libio-socket-ssl-perl.
Unpacking libio-socket-ssl-perl (from .../libio-socket-ssl-perl_1.76-2ubuntu1_all.deb) ...
Selecting previously unselected package libnet-smtp-ssl-perl.
Unpacking libnet-smtp-ssl-perl (from .../libnet-smtp-ssl-perl_1.01-3_all.deb) ...
Selecting previously unselected package libmailtools-perl.
Unpacking libmailtools-perl (from .../libmailtools-perl_2.12-1_all.deb) ...
Selecting previously unselected package libdigest-hmac-perl.
Unpacking libdigest-hmac-perl (from .../libdigest-hmac-perl_1.03+dfsg-1_all.deb) ...
Selecting previously unselected package libnet-ip-perl.
Unpacking libnet-ip-perl (from .../libnet-ip-perl_1.26-1_all.deb) ...
Selecting previously unselected package libsocket6-perl.
Unpacking libsocket6-perl (from .../libsocket6-perl_0.23-1build3_armhf.deb)
...
Selecting previously unselected package libio-socket-inet6-perl.
Unpacking libio-socket-inet6-perl (from .../libio-socket-inet6-perl_2.69-2_all.deb) ...
Selecting previously unselected package libnet-dns-perl.
Unpacking libnet-dns-perl (from .../libnet-dns-perl_0.68-1.2_armhf.deb) ...
Selecting previously unselected package libnet-domain-tld-perl.
Unpacking libnet-domain-tld-perl (from .../libnet-domain-tld-perl_1.69-1_all.deb) ...
Selecting previously unselected package libemail-valid-perl.
Unpacking libemail-valid-perl (from .../libemail-valid-perl_0.190-1_all.deb)
...
Selecting previously unselected package at.
Unpacking at (from .../at_3.1.13-2ubuntu2_armhf.deb) ...
Selecting previously unselected package dctrl-tools.
Unpacking dctrl-tools (from .../dctrl-tools_2.23_armhf.deb) ...
Selecting previously unselected package devscripts.
Unpacking devscripts (from .../devscripts_2.13.4ubuntu0.1_armhf.deb) ...
Selecting previously unselected package diffstat.
Unpacking diffstat (from .../diffstat_1.56-1_armhf.deb) ...
Selecting previously unselected package distro-info-data.
Unpacking distro-info-data (from .../distro-info-data_0.16ubuntu0.1_all.deb)
...
Selecting previously unselected package dput.
Unpacking dput (from .../dput_0.9.6.3+nmu2ubuntu1_all.deb) ...
Selecting previously unselected package libapt-pkg-perl.
Unpacking libapt-pkg-perl (from .../libapt-pkg-perl_0.1.29_armhf.deb) ...
Selecting previously unselected package libarchive-zip-perl.
Unpacking libarchive-zip-perl (from .../libarchive-zip-perl_1.30-7_all.deb)
...
Selecting previously unselected package libsub-identify-perl.
Unpacking libsub-identify-perl (from .../libsub-identify-perl_0.04-1build2_armhf.deb) ...
Selecting previously unselected package libautodie-perl.
Unpacking libautodie-perl (from .../libautodie-perl_2.20-1_all.deb) ...
```



```
Selecting previously unselected package libsub-name-perl.
Unpacking libsub-name-perl (from .../libsub-name-perl_0.05-1build3_armhf.deb) ...
Selecting previously unselected package libclass-accessor-perl.
Unpacking libclass-accessor-perl (from .../libclass-accessor-perl_0.34-1_all.deb) ...
Selecting previously unselected package libclone-perl.
Unpacking libclone-perl (from .../libclone-perl_0.34-1_armhf.deb) ...
Selecting previously unselected package libcommon-sense-perl.
Unpacking libcommon-sense-perl (from .../libcommon-sense-perl_3.6-1_all.deb)
...
Selecting previously unselected package libdistro-info-perl.
Unpacking libdistro-info-perl (from .../libdistro-info-perl_0.11_all.deb)
...
Selecting previously unselected package libencode-locale-perl.
Unpacking libencode-locale-perl (from .../libencode-locale-perl_1.03-1_all.deb) ...
Selecting previously unselected package libexporter-lite-perl.
Unpacking libexporter-lite-perl (from .../libexporter-lite-perl_0.02-2_all.deb) ...
Selecting previously unselected package libfile-basedir-perl.
Unpacking libfile-basedir-perl (from .../libfile-basedir-perl_0.03-1fakesync1_all.deb) ...
Selecting previously unselected package libhttp-date-perl.
Unpacking libhttp-date-perl (from .../libhttp-date-perl_6.02-1_all.deb) ...
Selecting previously unselected package libfile-listing-perl.
Unpacking libfile-listing-perl (from .../libfile-listing-perl_6.04-1_all.deb) ...
Selecting previously unselected package libfont-afm-perl.
Unpacking libfont-afm-perl (from .../libfont-afm-perl_1.20-1_all.deb) ...
Selecting previously unselected package liburi-perl.
Unpacking liburi-perl (from .../liburi-perl_1.60-1_all.deb) ...
Selecting previously unselected package libhtml-tagset-perl.
Unpacking libhtml-tagset-perl (from .../libhtml-tagset-perl_3.20-2_all.deb)
...
Selecting previously unselected package libhtml-parser-perl.
Unpacking libhtml-parser-perl (from .../libhtml-parser-perl_3.71-1_armhf.deb) ...
Selecting previously unselected package libio-html-perl.
Unpacking libio-html-perl (from .../libio-html-perl_1.00-1_all.deb) ...
Selecting previously unselected package liblwp-mediatypes-perl.
Unpacking liblwp-mediatypes-perl (from .../liblwp-mediatypes-perl_6.02-1_all.deb) ...
Selecting previously unselected package libhttp-message-perl.
Unpacking libhttp-message-perl (from .../libhttp-message-perl_6.06-1_all.deb) ...
Selecting previously unselected package libhtml-form-perl.
Unpacking libhtml-form-perl (from .../libhtml-form-perl_6.03-1_all.deb) ...
Selecting previously unselected package libhtml-tree-perl.
Unpacking libhtml-tree-perl (from .../libhtml-tree-perl_5.02-1_all.deb) ...
Selecting previously unselected package libhtml-format-perl.
```

```
Unpacking libhtml-format-perl (from .../libhtml-format-perl_2.10-1_all.deb)
...
Selecting previously unselected package libhttp-cookies-perl.
Unpacking libhttp-cookies-perl (from .../libhttp-cookies-perl_6.00-2_all.deb) ...
Selecting previously unselected package libhttp-daemon-perl.
Unpacking libhttp-daemon-perl (from .../libhttp-daemon-perl_6.01-1_all.deb)
...
Selecting previously unselected package libhttp-negotiate-perl.
Unpacking libhttp-negotiate-perl (from .../libhttp-negotiate-perl_6.00-2_all.deb) ...
Selecting previously unselected package libio-pty-perl.
Unpacking libio-pty-perl (from .../libio-pty-perl_1%3a1.08-1build3_armhf.deb) ...
Selecting previously unselected package libio-string-perl.
Unpacking libio-string-perl (from .../libio-string-perl_1.08-2_all.deb) ...
Selecting previously unselected package libio-stringy-perl.
Unpacking libio-stringy-perl (from .../libio-stringy-perl_2.110-5_all.deb)
...
Selecting previously unselected package libipc-run-perl.
Unpacking libipc-run-perl (from .../libipc-run-perl_0.92-1_all.deb) ...
Selecting previously unselected package libipc-system-simple-perl.
Unpacking libipc-system-simple-perl (from .../libipc-system-simple-perl_1.21-1_all.deb) ...
Selecting previously unselected package libjson-perl.
Unpacking libjson-perl (from .../libjson-perl_2.59-1_all.deb) ...
Selecting previously unselected package libjson-xs-perl.
Unpacking libjson-xs-perl (from .../libjson-xs-perl_2.340-1_armhf.deb) ...
Selecting previously unselected package liblist-moreutils-perl.
Unpacking liblist-moreutils-perl (from .../liblist-moreutils-perl_0.33-1build2_armhf.deb) ...
Selecting previously unselected package libnet-http-perl.
Unpacking libnet-http-perl (from .../libnet-http-perl_6.06-1_all.deb) ...
Selecting previously unselected package libwww-robotrules-perl.
Unpacking libwww-robotrules-perl (from .../libwww-robotrules-perl_6.01-1_all.deb) ...
Selecting previously unselected package libwww-perl.
Unpacking libwww-perl (from .../libwww-perl_6.05-1_all.deb) ...
Selecting previously unselected package liblwp-protocol-https-perl.
Unpacking liblwp-protocol-https-perl (from .../liblwp-protocol-https-perl_6.04-1_all.deb) ...
Selecting previously unselected package libparse-debcontrol-perl.
Unpacking libparse-debcontrol-perl (from .../libparse-debcontrol-perl_2.005-4_all.deb) ...
Selecting previously unselected package libparse-debianchangelog-perl.
Unpacking libparse-debianchangelog-perl (from .../libparse-debianchangelog-perl_1.2.0-1ubuntu1_all.deb) ...
Selecting previously unselected package libperlio-gzip-perl.
Unpacking libperlio-gzip-perl (from .../libperlio-gzip-perl_0.18-1build2_armhf.deb) ...
```

```
Selecting previously unselected package libtext-levenshtein-perl.
Unpacking libtext-levenshtein-perl (from .../libtext-levenshtein-perl_0.06~01-2_all.deb) ...
Selecting previously unselected package libtie-ixhash-perl.
Unpacking libtie-ixhash-perl (from .../libtie-ixhash-perl_1.23-1_all.deb)
...
Selecting previously unselected package hardening-includes.
Unpacking hardening-includes (from .../hardening-includes_2.3ubuntu1_all.deb) ...
Selecting previously unselected package patchutils.
Unpacking patchutils (from .../patchutils_0.3.2-2_armhf.deb) ...
Selecting previously unselected package tlutils.
Unpacking tlutils (from .../tlutils_1.37-2ubuntu1_armhf.deb) ...
Selecting previously unselected package lintian.
Unpacking lintian (from .../lintian_2.5.19ubuntu1_all.deb) ...
Selecting previously unselected package python3-chardet.
Unpacking python3-chardet (from .../python3-chardet_2.0.1-1_all.deb) ...
Selecting previously unselected package python3-six.
Unpacking python3-six (from .../python3-six_1.3.0-1_all.deb) ...
Selecting previously unselected package python3-debian.
Unpacking python3-debian (from .../python3-debian_0.1.21+nmu2ubuntu1_all.deb) ...
Selecting previously unselected package wdiff.
Unpacking wdiff (from .../wdiff_1.1.2-1_armhf.deb) ...
Selecting previously unselected package libauthen-sasl-perl.
Unpacking libauthen-sasl-perl (from .../libauthen-sasl-perl_2.1500-1_all.deb) ...
Selecting previously unselected package python3-magic.
Unpacking python3-magic (from .../python3-magic_5.11-2ubuntu4.1_all.deb) ...
Processing triggers for man-db ...
Processing triggers for ureadahead ...
Setting up libnet-ssleay-perl (1.55-1) ...
Setting up libio-socket-ssl-perl (1.76-2ubuntu1) ...
Setting up libnet-smtp-ssl-perl (1.01-3) ...
Setting up libmailtools-perl (2.12-1) ...
Setting up libdigest-hmac-perl (1.03+dfsg-1) ...
Setting up libnet-ip-perl (1.26-1) ...
Setting up libsocket6-perl (0.23-1build3) ...
Setting up libio-socket-inet6-perl (2.69-2) ...
Setting up libnet-dns-perl (0.68-1.2) ...
Setting up libnet-domain-tld-perl (1.69-1) ...
Setting up libemail-valid-perl (0.190-1) ...
Setting up at (3.1.13-2ubuntu2) ...
atd start/running, process 12640
Setting up dctrl-tools (2.23) ...
Setting up devscripts (2.13.4ubuntu0.1) ...
Setting up diffstat (1.56-1) ...
Setting up distro-info-data (0.16ubuntu0.1) ...
Setting up dput (0.9.6.3+nmu2ubuntu1) ...
Setting up libapt-pkg-perl (0.1.29) ...
Setting up libarchive-zip-perl (1.30-7) ...
```

```
Setting up libsub-identify-perl (0.04-1build2) ...
Setting up libautodie-perl (2.20-1) ...
Setting up libsub-name-perl (0.05-1build3) ...
Setting up libclass-accessor-perl (0.34-1) ...
Setting up libclone-perl (0.34-1) ...
Setting up libcommon-sense-perl (3.6-1) ...
Setting up libdistro-info-perl (0.11) ...
Setting up libencode-locale-perl (1.03-1) ...
Setting up libexporter-lite-perl (0.02-2) ...
Setting up libfile-basedir-perl (0.03-1fakesync1) ...
Setting up libhttp-date-perl (6.02-1) ...
Setting up libfile-listing-perl (6.04-1) ...
Setting up libfont-afm-perl (1.20-1) ...
Setting up liburi-perl (1.60-1) ...
Setting up libhtml-tagset-perl (3.20-2) ...
Setting up libhtml-parser-perl (3.71-1) ...
Setting up libio-html-perl (1.00-1) ...
Setting up liblwp-mediatypes-perl (6.02-1) ...
Setting up libhttp-message-perl (6.06-1) ...
Setting up libhtml-form-perl (6.03-1) ...
Setting up libhtml-tree-perl (5.02-1) ...
Setting up libhtml-format-perl (2.10-1) ...
Setting up libhttp-cookies-perl (6.00-2) ...
Setting up libhttp-daemon-perl (6.01-1) ...
Setting up libhttp-negotiate-perl (6.00-2) ...
Setting up libio-pty-perl (1:1.08-1build3) ...
Setting up libio-string-perl (1.08-2) ...
Setting up libio-stringy-perl (2.110-5) ...
Setting up libipc-run-perl (0.92-1) ...
Setting up libipc-system-simple-perl (1.21-1) ...
Setting up libjson-perl (2.59-1) ...
Setting up libjson-xs-perl (2.340-1) ...
Setting up liblist-moreutils-perl (0.33-1build2) ...
Setting up libnet-http-perl (6.06-1) ...
Setting up libwww-robotrules-perl (6.01-1) ...
Setting up libparse-debianchangelog-perl (1.2.0-1ubuntu1) ...
Setting up libperlio-gzip-perl (0.18-1build2) ...
Setting up libtext-levenshtein-perl (0.06-01-2) ...
Setting up libtie-ixhash-perl (1.23-1) ...
Setting up hardening-includes (2.3ubuntu1) ...
Setting up patchutils (0.3.2-2) ...
Setting up tlutils (1.37-2ubuntu1) ...
Setting up lintian (2.5.19ubuntu1) ...
Setting up python3-chardet (2.0.1-1) ...
Setting up python3-six (1.3.0-1) ...
Setting up python3-debian (0.1.21+nmu2ubuntu1) ...
Setting up wdiff (1.1.2-1) ...
Setting up libauthen-sasl-perl (2.1500-1) ...
Setting up python3-magic (5.11-2ubuntu4.1) ...
Setting up libwww-perl (6.05-1) ...
```

```
Setting up liblwp-protocol-https-perl (6.04-1) ...
Setting up libparse-debcontrol-perl (2.005-4) ...
Processing triggers for ureadahead ...
Processing triggers for libc-bin ...
localepurge: Disk space freed in /usr/share/locale: 0 KiB
localepurge: Disk space freed in /usr/share/man: 0 KiB

Total disk space freed by localepurge: 0 KiB

user1@plum:~$
```

## ソースコードの取得

ソースコードを取得します。  
(GitHubからソースを取得するために、追加で git パッケージが必要となります)。

```
user1@plum:~$ cd src/
user1@plum:~/src$ git clone https://github.com/SoftEtherVPN/SoftEtherVPN.git
Cloning into 'SoftEtherVPN'...
remote: Reusing existing pack: 4750, done.
remote: Counting objects: 12, done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 4762 (delta 4), reused 0 (delta 0)
Receiving objects: 100% (4762/4762), 19.04 MiB | 2.58 MiB/s, done.
Resolving deltas: 100% (4003/4003), done.
Checking connectivity... done
Checking out files: 100% (1052/1052), done.
user1@plum:~/src$
```

## スクリプトの修正

Debianパッケージを作成するためのスクリプトが入っていますがARM環境は“armv6l”<sup>2)</sup>のみ考慮されているため“armv7l”対応のために1行追加します。

```
user1@plum:~/src$ cd SoftEtherVPN/debian/
user1@plum:~/src/SoftEtherVPN/debian$ ls -l
total 52
-rw-rw-r-- 1 user1 user1  435 Mar 31 18:05 README.TXT
drwxrwxr-x 2 user1 user1 4096 Mar 31 18:05 bin
-rw-rw-r-- 1 user1 user1  148 Mar 31 18:05 changelog
-rw-rw-r-- 1 user1 user1 3758 Mar 31 18:05 control
-rwxrwxr-x 1 user1 user1 2261 Mar 31 18:05 dch-generate.sh
drwxrwxr-x 2 user1 user1 4096 Mar 31 18:05 init.d
-rw-rw-r-- 1 user1 user1  648 Mar 31 18:05 makefile.patch
-rwxrwxr-x 1 user1 user1  613 Mar 31 18:05 rules <-----
```

```
-rwxrwxr-x 1 user1 user1 49 Mar 31 18:05 softether-vpnbridge.install
-rwxrwxr-x 1 user1 user1 49 Mar 31 18:05 softether-vpnclient.install
-rwxrwxr-x 1 user1 user1 43 Mar 31 18:05 softether-vpncmd.install
-rwxrwxr-x 1 user1 user1 49 Mar 31 18:05 softether-vpnserver.install
drwxrwxr-x 2 user1 user1 4096 Mar 31 18:05 source
```

debian/rules というファイルが修正対象となります。

```
user1@plum:~/src/SoftEtherVPN/debian$ cat rules
#!/usr/bin/make -f

export DH_VERBOSE=1
CFLAGS := $(shell dpkg-buildflags --get CFLAGS)
LDFLAGS := $(shell dpkg-buildflags --get LDFLAGS)

%:
    dh $@

override_dh_auto_configure: configure_config

override_dh_auto_clean:
    rm -fr Makefile* usr bin tmp src/bin/BuiltHamcoreFiles

override_dh_auto_install:
    patch -f < debian/makefile.patch
    mkdir -p usr/bin
    make install

configure_config:
    if [ $(shell uname -m) = 'x86_64' ]; then echo "1\n2\n" | ./configure;
fi
    if [ $(shell uname -m) = 'i686' ]; then echo "1\n1\n" | ./configure; fi
    if [ $(shell uname -m) = 'armv6l' ]; then echo "1\n1\n" | ./configure;
fi

user1@plum:~/src/SoftEtherVPN/debian$
```

configure\_config: のセクションに、下記1行を追加します。

```
    if [ $(shell uname -m) = 'armv7l' ]; then echo "1\n1\n" | ./configure;
fi
```

## changelogファイルの生成

changelogファイルを、ソースにあわせて再作成させます。

```
user1@plum:~/src/SoftEtherVPN/debian$ cp changelog changelog.dist
```

```
user1@plum:~/src/SoftEtherVPN/debian$ ./dch-generate.sh > changelog
user1@plum:~/src/SoftEtherVPN/debian$
```

どのように変更されたかは「git diff」コマンドで確認できます。

```
user1@plum:~/src/SoftEtherVPN/debian$ git diff changelog
diff --git a/debian/changelog b/debian/changelog
index fc27eb0..bf35361 100644
--- a/debian/changelog
+++ b/debian/changelog
@@ -1,5 +1,6 @@
-softether-vpn (0:4.04.9412-rtm) unstable; urgency=low
+softether-vpn (4.06.9435-beta) UNRELEASED; urgency=low

- * Testing debianization
+ * See: http://www.softether.org/5-download/history
+
+ -- John Q. Sample <tamade@example.org>  Wed, 26 Mar 2014 10:52:19 +0900

- -- Dmitry Orlov <me@mosquito.su>  Tue, 4 Feb 2014 20:24:43 +0000
user1@plum:~/src/SoftEtherVPN/debian$
```

## パッケージのビルド(debuild)

先ほどインストールした debuild コマンドを使用して、パッケージのビルドを行います。

```
user1@plum:~/src/SoftEtherVPN/debian$ cd ..
user1@plum:~/src/SoftEtherVPN$ debuild -us -uc -b
dpkg-buildpackage -rfakeroot -D -us -uc -b
dpkg-buildpackage: source package softether-vpn
dpkg-buildpackage: source version 4.06.9435-beta
dpkg-buildpackage: source changed by John Q. Sample <tamade@example.org>
dpkg-source --before-build SoftEtherVPN
dpkg-buildpackage: host architecture armhf
fakeroot debian/rules clean
dh clean
dh: No compatibility level specified in debian/compat
dh: This package will soon FTBFS; time to fix it!
dh: Compatibility levels before 5 are deprecated (level 1 in use)
dh_testdir
dh_clean
make[1]: Entering directory `/home/user1/src/SoftEtherVPN'
rm -fr Makefile* usr bin tmp src/bin/BuiltHamcoreFiles
make[1]: Leaving directory `/home/user1/src/SoftEtherVPN'
dh_clean
dh_clean: No compatibility level specified in debian/compat
dh_clean: This package will soon FTBFS; time to fix it!
dh_clean: Compatibility levels before 5 are deprecated (level 1 in use)
```

```
rm -f debian/substvars
rm -f debian/*.debhelper
rm -rf debian/tmp/
rm -f debian/softether-vpnclient.substvars
rm -f debian/softether-vpnclient/*.debhelper
rm -rf debian/softether-vpnclient/
rm -f debian/softether-vpncmd.substvars
rm -f debian/softether-vpncmd/*.debhelper
rm -rf debian/softether-vpncmd/
rm -f debian/softether-vpnserver.substvars
rm -f debian/softether-vpnserver/*.debhelper
rm -rf debian/softether-vpnserver/
rm -f debian/*.debhelper.log
rm -f debian/debhelper.log
rm -f debian/files
find . \( \( -type f -a \
    \( -name '#*#' -o -name '*.~' -o -name '*~' -o -name DEADJOE \
    -o -name '*.orig' -o -name '*.rej' -o -name '*.bak' \
    -o -name '*.orig' -o -name '*.rej' -o -name '*.SUMS' \
    -o -name TAGS -o \( -path '*/.deps/*' -a -name '*.P' \) \
    \) -exec rm -f {} \; \) -o \
    \( -type d -a -name autom4te.cache -prune -exec rm -rf {} \; \) \)
debian/rules build
~~~~ 中略 ~~~~
dpkg-deb: building package `softether-vpnbridge' in `../softether-
vpnbridge_4.06.9435-beta_armhf.deb'.
dh_builddeb: No compatibility level specified in debian/compat
dh_builddeb: This package will soon FTBFS; time to fix it!
dh_builddeb: Compatibility levels before 5 are deprecated (level 1 in use)
dpkg-deb --build debian/softether-vpnclient ..
dpkg-deb: building package `softether-vpnclient' in `../softether-
vpnclient_4.06.9435-beta_armhf.deb'.
dh_builddeb: No compatibility level specified in debian/compat
dh_builddeb: This package will soon FTBFS; time to fix it!
dh_builddeb: Compatibility levels before 5 are deprecated (level 1 in use)
dpkg-deb --build debian/softether-vpncmd ..
dpkg-deb: building package `softether-vpncmd' in `../softether-
vpncmd_4.06.9435-beta_armhf.deb'.
dh_builddeb: No compatibility level specified in debian/compat
dh_builddeb: This package will soon FTBFS; time to fix it!
dh_builddeb: Compatibility levels before 5 are deprecated (level 1 in use)
dpkg-deb --build debian/softether-vpnserver ..
dpkg-deb: building package `softether-vpnserver' in `../softether-
vpnserver_4.06.9435-beta_armhf.deb'.
dh_builddeb: No compatibility level specified in debian/compat
dh_builddeb: This package will soon FTBFS; time to fix it!
dh_builddeb: Compatibility levels before 5 are deprecated (level 1 in use)
dpkg-genchanges -b >../softether-vpn_4.06.9435-beta_armhf.changes
dpkg-genchanges: binary-only upload - not including any source code
dpkg-source --after-build SoftEtherVPN
dpkg-buildpackage: binary only upload (no source included)
```



```
Now running lintian...
Could not find a profile matching "{VENDOR}/main" for vendor ubuntu at
/usr/bin/lintian line 982
Finished running lintian.
user1@plum:~/src/SoftEtherVPN$
```

ビルドが完了すると、ひとつ上のディレクトリにパッケージが作成されています。

```
user1@plum:~/src/SoftEtherVPN$ ls -l ../
total 6440
drwxrwxr-x 9 user1 user1    4096 Mar 31 18:34 SoftEtherVPN
-rw-r--r-- 1 user1 user1    293 Mar 31 18:19 softether-vpn_4.04.9412-
rtm_armhf.build
-rw-r--r-- 1 user1 user1   72554 Mar 31 18:36 softether-vpn_4.06.9435-
beta_armhf.build
-rw-r--r-- 1 user1 user1    1919 Mar 31 18:36 softether-vpn_4.06.9435-
beta_armhf.changes
-rw-r--r-- 1 user1 user1 1623290 Mar 31 18:35 softether-vpnbridge_4.06.9435-
beta_armhf.deb
-rw-r--r-- 1 user1 user1 1622830 Mar 31 18:35 softether-vpnclient_4.06.9435-
beta_armhf.deb
-rw-r--r-- 1 user1 user1 1623878 Mar 31 18:35 softether-vpncmd_4.06.9435-
beta_armhf.deb
-rw-r--r-- 1 user1 user1 1622794 Mar 31 18:35 softether-vpnserver_4.06.9435-
beta_armhf.deb
user1@plum:~/src/SoftEtherVPN$
```

## ビルドされたパッケージのインストール

さきほど出来上がった4つのパッケージを、dpkg コマンドでインストールします。

```
user1@plum:~/src/SoftEtherVPN$ sudo dpkg -i ../softether-vpn*.deb
Selecting previously unselected package softether-vpnbridge.
(Reading database ... 30697 files and directories currently installed.)
Unpacking softether-vpnbridge (from ../softether-vpnbridge_4.06.9435-
beta_armhf.deb) ...
Selecting previously unselected package softether-vpnclient.
Unpacking softether-vpnclient (from ../softether-vpnclient_4.06.9435-
beta_armhf.deb) ...
Selecting previously unselected package softether-vpncmd.
Unpacking softether-vpncmd (from ../softether-vpncmd_4.06.9435-
beta_armhf.deb) ...
Selecting previously unselected package softether-vpnserver.
Unpacking softether-vpnserver (from ../softether-vpnserver_4.06.9435-
beta_armhf.deb) ...
Setting up softether-vpncmd (4.06.9435-beta) ...
Setting up softether-vpnserver (4.06.9435-beta) ...
Setting up softether-vpnbridge (4.06.9435-beta) ...
```

```
Setting up softether-vpnclient (4.06.9435-beta) ...  
user1@plum:~/src/SoftEtherVPN$
```

共通で必要となるのは softether-vpnclient パッケージのみとなります。

- VPNサーバとして動作させる
- VPNクライアントとして動作させる

等、用途が決まっているようであれば、必要なパッケージだけインストールすることで容量を削減することもできます。

[例] softether-vpnbridge をアンインストールする。

```
user1@plum:~/src/SoftEtherVPN$ sudo apt-get purge softether-vpnbridge  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following packages will be REMOVED:  
  softether-vpnbridge*  
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.  
After this operation, 2053 kB disk space will be freed.  
Do you want to continue [Y/n]?  
(Reading database ... 30722 files and directories currently installed.)  
Removing softether-vpnbridge ...  
user1@plum:~/src/SoftEtherVPN$
```

1)

<https://ja.softether.org/>

2)

ARM11 CPU, Raspberry Piなど

From:

<https://ma-tech.centurysys.jp/> - **MA-X/MA-S/MA-E/IP-K Developers' Wiki**

Permanent link:

[https://ma-tech.centurysys.jp/doku.php?id=mae3xx\\_tips:setup\\_softether:start](https://ma-tech.centurysys.jp/doku.php?id=mae3xx_tips:setup_softether:start)

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