

Building Debian Packages by Example: Packaging dlkern

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We will demonstrate the building of a Debian package by preparing a .deb file for dlkern, a package to download the Linux kernel and verify its signature. Dlkern is a very simple one file script. Therefore this session will cover only the very basics of Debian Package building.

1. Examine the upstream source
2. Write a short description of the package
Downloads the Linux kernel and verifies its signature.
3. Write a long description for the package
Downloads the current stable/beta/prepatch Linux kernel and its signature, and verifies the signature via GnuPG.pm. Versions are specified on the command line as -s (stable), -b (beta), or -p (pre-patch) (all 3 may be specified at once). Downloads are done via ncftpget, wget, or Net::FTP. It allows specification of 2-letter country code for the kernel mirror system, and selection of compression format (.gz/.bz2).
4. Announce that you are working on the package
5. Verify the license is DFSG
6. Write a debian/control file
7. Write a debian/copyright file
8. Write a debian/rules file
9. Test the package
 - (a) `ls -alR debian/tmp*`
 - (b) `dpkg -c ../new-pkg.deb`
 - (c) `dpkg -I ../new-pkg.deb`
 - (d) `dpkg -i ../new-pkg.deb`