



Building Maemo packages easily
Using mud-builder

Agenda

- Background
- Features
- Examples
- Future
- Questions

Background

- Maemo is deb based
- ...with differences (Maemo Packaging Policy):
 - Section
 - XB-Maemo-Icon
 - Hildonisation
 - UI screen changes
 - Version numbers
- Porters != upstream maintainers

Porters' Options

- Maintain a fork?!
 - p7zip, emacs-for-maemo, zip-unzip, motion, fuse, consoleutils, hugs, ...
- Get patches integrated upstream
- Keep patches unversioned locally
- Get a garage project to keep patches
- ...
- **mud-builder**

Features

- Take source from upstream
 - Automatically Debianise, if necessary
 - Automatically Maemoify
 - Apply any patches
- Build
- Test
- Upload source package to auto-builder*

* not *quite* automatic yet...

Features (continued)

- `dh_make` + additions:
 - Recognises most basic source layouts
 - Automatic dependency handling
 - Handle bora/chinook/diablo SDK differences
 - Automatic “user/” section prefix
 - Icon image file to XB-Maemo-Icon header

History

- Originally “Maemo Unofficial Debs”
 - Auto-builder
 - Patch management
 - Central project
- Now, just “**mud**”
 - ~~Auto-builder~~
 - Patch management
 - Central project(?)

Package Definition

- XML file
 - Package name
 - Source location
 - Tarball
 - Upstream deb-package
 - Command (e.g. `svn`)
 - Build information
 - Package information
- Optional icon
- Optional patches

Example - bc

```
<package>  
  <fetch type="debian" />  
</package>
```

- That's it.
- Build package with:

```
mud build bc
```

Example - netcat

```
<package>
  <fetch type="tarball">
    <url>http://sourceforge.net/netcat-0.7.1.tar.bz2</url>
  </fetch>
  <deb>
    <icon>http://netcat.sourceforge.net/favicon.ico</icon>
    <description>
      TCP/IP swiss army knife\nA simple ...
    </description>
    <section>user/communication</section>
  </deb>
</package>
```

Future – assistance welcome!

- Extras auto-builder changes things
 - (for the better!)
- New direction: focus on easing packaging
 - Revamp website & improve documentation
 - Simplify package signing & upload
 - Warn/error on Packaging Policy violations
 - Review existing packages
 - Upload good packages to Extras(-devel)
 - Use version control (`svn del`) for the others

Questions?

- More information:
 - <http://mud-builder.garage.maemo.org/>
 - http://wiki.maemo.org/User:Jaffa/mud_design
 - mud-builder-users@garage.maemo.org
 - andrew@bleb.org
- Questions?