

pkgsrc meets pkg-ng

Generating pkg-ng packages from pkgsrc

pkgsrcCon
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Why pkg-ng

- Why not?
- Binary packages first-class citizens
 - No more options for packages
- Triggers
- Transactions (SQLite)

pkgformat framework

- Everything goes to mk/pkgformat/pkgng/
- Just copied everything to start from
- Changes in:
 - mk/pkgformat/pkgformat-vars.mk
 - mk/pkgformat/metadata.mk
 - mk/pkgformat/package.mk

pkgformat/pkgformat-vars.mk

- `PKG_CMD?= ${PKG_TOOLS_BIN}/bin/pkg`
- `PKG_CREATE_CMD?= ${PKG_CMD} create`
 - Amounts to `s/pkg_/pkg /` in a way

pkgformat/metadata.mk

- Uses a single metadata file for package creation, +MANIFEST

```
+   ${RUN} { \
+   ${ECHO} "name: ${PKGNAME:C/-.*//}"; \
+   ${ECHO} "version: ${PKGVERSION}"; \
+   ${ECHO} "origin: ${CATEGORIES}/${PKGNAME:C/-.*//}"; \
+   ${ECHO} "comment: ${COMMENT}"; \
+   ${ECHO} "arch: ${LOWER_ARCH}"; \
+   ${ECHO} "www: ${HOMEPAGE}"; \
+   ${ECHO} "maintainer: ${MAINTAINER}"; \
+   ${ECHO} "prefix: ${PREFIX}"; \
+   } > ${.TARGET}
```

pkgformat/package.mk

- Handle more compression formats (LZMA...)

Issues

- pkgsrc relies on pkg_install in a lot more places
 - Comparing versions
 - Dependency tracking...
- pkg-ng still fails creating a package:

```
pkg: Warning: Major OS version upgrade
detected.  Running "pkg-static install -f pkg"
recommended
```

```
pkg: Cannot open "/var/run/ld-elf.so.hints":
No such file or directory
```

```
*** Error code 1
```

References

- In pkgsrc: wip/pkg15 and then pkgtools/pkg
- On <http://git.edgebsd.org/> repository edgebsd-pkgsrc.git branch khorben/pkgng