

How I package OpenSource Packages

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The basics

Start with a fresh install of AIX –
I focus on AIX 5.3 TL07 SP00.

The only “non-standard”
packages are: openssh.base, bos.adt.insttools and bos.adt.libm.
OpenSSH because I want it, bos.adt.insttools for the AIX command
mkinstallp, and bos.adt.libm as it is needed by many things once you
start compiling.

I also install my 'build' scripts –
packaged as aixtools.buildaix (see
<http://www.aixtools.net/index.php/buildaix>).

KISS - Keep it Stupidly Simple

So, taking a well-written (to be
portable) project such as OpenBSD – OpenSSH-portable –
basic packaging is very simple – one command!

-

install AIX with additional
filesets and buildaix

-

Download and unpack the OpenSource
project

-

change the the base directory

-

buildaix (and wait)

Details

```
-  
  
Install AIX &ndash; that is your  
job  
  
-  
  
cd /tmp  
  
wget  
http://ftp.openbsd.org/pub/OpenBSD/OpenSSH/portable/openssh-7.6p1.tar.gz  
  
gzip  
-dc openssh-7.6p1.tar.gz | tar xf -  
  
-  
  
cd openssh-7.6p1  
  
-  
  
buildaix (need to be root for this  
to complete)
```

There is some output to inform you what is being done, and stderr messages still appear on screen. At the end you should see something such as:

```
+  
mkinstallp.ksh /var/buildaix/tmp/openssh/7.6.0.1601 >  
.buildaix/mkinstallp.out
```

```
=====
```

```
buildaix.tmp.openssh:buildaix.tmp.openssh.man.en_US:7.6.0.1601::l:T::::N:tmp
```

openssh man pages::::0::

buildaix.tmp.openssh:buildaix.tmp.openssh.rte:7.6.0.1601::I:T::::N:tmp
openssh 05-Dec-2017::::0::

A name such as buildaix.tmp.openssh is probably not what you are looking for.

BUILDAIX creates a LPP package name from four key variables:

\$PROGRAM – by default “buildaix”

\$PRODUCT – by default the name of the sub-directory

\$FILESET – by default the name of the current directory – without numerics

\$VRMF – by default taken from the “numerics” of the current directory.

Further when \$PROGRAM == \$PRODUCT or \$PRODUCT == \$FILESET the name is shortened.

So, lets say I want this packaged as acme.openbsd.openssh I would do the following:

```
# PROGRAM=acme buildaix -P openbsd
```

...

```
+  
mkinstallp.ksh /var/acme/openbsd/openssh/7.6.0.1601 >
```

```
.buildaix/mkinstallp.out
```

```
=====
```

```
acme.openbsd.openssh:acme.openbsd.openssh.man.en_US:7.6.0.1601::!T::::N:openbsd  
openssh man pages::::0::
```

```
acme.openbsd.openssh:acme.openbsd.openssh.rte:7.6.0.1601::!T::::N:openbsd  
openssh 05-Dec-2017::::0::
```

```
buildaix.tmp.openssh:buildaix.tmp.openssh.man.en_US:7.6.0.1601::!T::::N:tmp  
openssh man pages::::0::
```

```
buildaix.tmp.openssh:buildaix.tmp.openssh.rte:7.6.0.1601::!T::::N:tmp  
openssh 05-Dec-2017::::0::
```

Or, use export PROGRAM=acme

So, to get the package to be called
acme.openssh – use:

```
# export PROGRAM=acme
```

```
# buildaix -P openssh -F openssh
```

```
root@x072:[/tmp/openssh-7.6p1]export  
PROGRAM=acme
```

```
root@x072:[/tmp/openssh-7.6p1]buildaix  
-P openssh -F openssh
```

...

+
mkinstallp.ksh /var/acme/openssh/openssh/7.6.0.1601 >
.buildaix/mkinstallp.out

=====

acme.openbsd.openssh:acme.openbsd.openssh.man.en_US:7.6.0.1601::l:T::::N:openbsd
openssh man pages::::0::

acme.openbsd.openssh:acme.openbsd.openssh.rte:7.6.0.1601::l:T::::N:openbsd
openssh 05-Dec-2017::::0::

acme.openssh:acme.openssh.man.en_US:7.6.0.1601::l:T::::N:openssh
man pages::::0::

acme.openssh:acme.openssh.rte:7.6.0.1601::l:T::::N:openssh
05-Dec-2017::::0::

buildaix.tmp.openssh:buildaix.tmp.openssh.man.en_US:7.6.0.1601::l:T::::N:tmp
openssh man pages::::0::

buildaix.tmp.openssh:buildaix.tmp.openssh.rte:7.6.0.1601::l:T::::N:tmp
openssh 05-Dec-2017::::0::

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