

### Non-Debug Open Solaris

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## Topics

- Mostly non-debug opensolaris
- Bug 6368986 support for OpenSolaris non-debug builds



## Mostly non-debug opensolaris

- What is required to do this?
- Non-debug encumbered binaries
  - > List of files
  - > Source of non-debug binaries



## **List of files**

\$ bzcat on-closed-bins-20060118.i386.tar.bz2 |tar tf closed/
 closed/root\_i386/
 closed/root\_i386/boot/acpi/
 closed/root\_i386/boot/acpi/tables/
 closed/root\_i386/boot/grub/
 closed/root\_i386/boot/solaris/
 closed/root\_i386/boot/solaris/
 closed/root\_i386/boot/solaris/bin/
 closed/root\_i386/boot/solaris/devicedb/
 closed/root\_i386/dev/
 closed/root\_i386/dev/
 closed/root\_i386/dev/dsk/
 ...



## Source of non-debug binaries

- Solaris Express Community Release
  - > Compiled non-debug
  - > Freely available
- Anything not available on SXCR
  - > Use the debug
  - In reality there is only one file libc\_i18n.a and it's 64 bit counterpart
- It's easier if we have SXCR of the right release installed



## Method

- Using these two we can create a non-debug encumbered tarball
  - > Well mostly non-debug
- I put together a script to do this
   > Available on my blog



## Anything else?

- Build 30 and earlier
  - > Change usr/src/lib/Makefile to recognise non-debug \$ROOT
- Build 31 and later
  - > Change usr/src/Makefile similarly
- Bldenv
  - > Run without '-d'
- Nightly

> Remove the 'F' flag from NIGHTLY\_FLAGS



# CR 6268986 Support for OpenSolaris non-debug builds

#### • Aims

- > One command to create debug and non-debug encumbered binaries
- > One workspace



## Background

- I've been looking at this since we opened Solaris
- With the split tree work, this went onto the backburner
- With the split tree complete (b31), this again came to prominance.
- Kupfer logged a bug and assigned it to me
- Aiming for the end of the month
  > But we'll see



## How does it work?

- Two main components
  - > Encumbered-bins
    - > Runs the builds
  - > Bindrop
    - > The smarts of working out what needs to go into the tarball
    - > Called by encumbered-bins after the builds



## encumbered-bins

- Closed debug build
  - > We need to run this first so we have some initial encumbered binaries for the
- Open debug build
  - > We need this to be able to get a list of files that an open build delivers
- Closed non-debug build
- Create the tarballs using all of the above and bindrop



## bindrop

- Package up the closed proto tree excluding everything that is generated in an open build
- A few other things in order to get signed crypto and a few other things



## **Current status**

- As of this morning (Jan 25) it looks like it's producing correct encumbered tarballs
  - > Well almost, we found a bug with the kstat perl modules so they are not included, but that's going into the open tree in b33 anyway
- Still need
  - > To test SPARC
  - > A little tidy up
  - > Code review
- Webrev shows about 1350 lines of new and modified code



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