Subject: Re: removing old IDL versions
Posted by John-David T. Smith on Tue, 27 Nov 2001 16:45:14 GMT
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Harald von der Osten-Woldenburg wrote:

Thanks a lot for your hints. So I will not remove older versions...

I've attached a bash shell script I use extensively to manage all my version of IDL. It makes a series of links for running older versions, e.g.:

idl (the latest)
idl_5.5
idl_5.4
...
and similarly with:
idlhelp
idlhelp_5.5
idlhelp_5.4
...

idlde idlde_5.5 idlde 5.4

. . .

etc. The links and main script are generated automatically. If you install IDL in, e.g., /usr/local/rsi, just run the script from there, whenever a new version is in place. It's very useful for pulling up an old version of help, or testing fatal bugs in prior version of IDL;)

Another very nice feature: the correct IDL library is inserted on your path, automatically, for whichever version you invoke. An even better way to use IDL paths is to avoid the environment variable IDL_PATH altogether, and use instead IDL_EXTRA (special to this script), which will be appended to the path after the IDL libraries are included. So, for a blanket installation, run makelinks, then the user need not setup any IDL_PATH, etc., unless he wants additional libraries, in which case he specifies them with IDL_EXTRA (and IDL_DLM_EXTRA if necessary).

Tested under Linux with bash, but should be fairly portable.

JD #!/bin/bash

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# makelinks: script for generating the links to run multiple versions
# of installed IDL, including the plain command line version, the
# development environment, and the online help, separately. Run this
# script after installing/deleting a new version of idl.
# NOTE: WHEN INSTALLING A NEW VERISON OF IDL, DO NOT SAY "Y" TO THE
# "MAKE LINKS" OPTION OF THE INSTALL SCRIPT WHICH RUNS AT THE END OF
# INSTALLATION (YOU CAN OPT NOT TO RUN IT, AS THIS IS ALL IT DOES).
# INSTEAD. RUN THIS SCRIPT AFTER INSTALLATION COMPLETES.
# THIS SCRIPT MUST BE AT THE MAIN RSI INSTALL LEVEL. E.G. /usr/local/rsi
# J.D. Smith 2000-11-5
base=$(dirname $0)
# Edit this to make the links elsewhere, but this is usually good.
destdir="$base/../bin"
[-x $destdir/idl] || {
  echo "Generating $destdir/idl script"
  cat <<\EOF > $destdir/idl
#!/bin/bash
# idl: A script to run multiple versions of RSI's IDL, including
# separately the command line, the development environment, or the
# online help. Each version is linked to this script (named idl).
# with names of type "prog_vers", where prog is one of:
# idl
# idlde
# idlhelp
# and vers is the version number, like 5.2. An example is idlde 5.4.
# You can them simply say, e.g., idlhelp_5.1 to get version 5.1's
# help, or idl_5.4 to run the command-line idl version 5.4, etc. If
# you find a version available which does not work, alert the
# sysadmin.
# The full set of links for all installed version of IDL are created
# by the script "makelinks" available in the RSI install directory.
# See that script for more info. Run it after installing or deleting
# an installation of idl in the RSI install directory (often
# /usr/local/rsi, or /export/local/rsi for exported shares). The
# installation directories are by default named idl_vers
# (e.g. /export/local/rsi/idl_5.4), and this naming convention must be
# retained. If this script is run via one of its links which has no
# version number (idl, idlde, or idlhelp), the latest version will be
# run. All IDL PATH entries which reference a preset $IDL DIR will be
# updated. This will ensure the correct set of IDL libraries are
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# being run.
# The user need no longer set IDL_DIR, it will be set by this script.
# It's not a problem if they do. The can also use IDL_EXTRA to
# specify other paths they'd like to search, which will be appended
# beyond the distributed IDL library's path. If they'd like to
# override the library, for instance, they can specify IDL PATH
# directly, being sure to include $IDL_DIR/lib. This is less portable
# and not always a good idea, unless you really need to specify the
# ordering of the paths.
# N.B.: This all means a new user need set up *nothing* in their
# .cshrc, .login, etc., to run any version of IDL immediately, and
# should simply specify a colon-separated lists of paths in
# "IDL_EXTRA" for their local programs (with a + prefix for recursion,
# if desired).
# N.B.: THIS FILE GOES IN THE DIRECTORY LABELED "destdir" IN THE
# SCRIPT makelinks (see the RSI install directory),
# J.D. Smith 2000-11-5
# Set this to the RSI install base, to run this script
rsi base=/usr/local/rsi
base=$(dirname $0)
# Save the (possible) user-set idl dir
[-n "$IDL DIR"] && old dir=$IDL DIR
# See how we were called.
vers=${0##*/}
case $vers in
  *idlde*)
   vers=${vers#idIde_};
   proq="idlde":
  *idlhelp*)
   vers=${vers#idlhelp_};
   prog="idlhelp";
  *idl*)
   vers=${vers#idl_};
   prog="idl";
   echo "Improperly formatted command name: $0";
   exit 1;
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esac
# Only dots and numbers
vers=$(echo $vers | tr -cd '[0-9].')
# No version? No problem. Find the latest version.
[-z "$vers"] && {
  latest="0.0"
  for scr in $base/idl *; do
[-L $scr]|| continue # Only links please
dvers=${scr##*/}
dvers=${dvers#idl_}
# Only dots and numbers, we need to compare
dvers=$(echo $dvers | tr -cd '[0-9].')
[-z "$dvers" ] && continue
major=${dvers%%.*}
minor=${dvers#*.}
minor=$(echo $minor | tr -d '.')
fvers="$major.$minor"
[ -n $(echo "if (${fvers}>${latest}) 1" | bc) ] && {
   vers=$dvers:
   latest=$fvers;
}
  done
}
[-z "$vers"] && {
  echo "Cannot find any validly named version of idl in $base." 1>&2;
  exit 1;
}
export IDL_DIR="$rsi_base/idl_$vers"
# Update any relevant parts of the IDL_PATH to point to the new directory
if [-n "$old dir" -a -n "$IDL PATH"]; then
export IDL_PATH=$(echo $IDL_PATH | sed "s:$old_dir:$IDL_DIR:g")
# If there wasn't one, make sure the lib directory is included
[-z "$IDL_PATH"] && export IDL_PATH="+$IDL_DIR/lib${IDL_EXTRA:+:$IDL_EXTRA}"
export IDL_DLM_PATH="+$IDL_DIR/bin${IDL_DLM_EXTRA:+:$IDL_DLM_EXTRA} "
# Run the correct version
exec $IDL DIR/bin/$prog $@
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EOF
chmod +x $destdir/idl
# Kill the old links, in case we removed a directory
rm -f $destdir/idl{,de,help}_*
# Go through the installed idl directories, making links
latest="0.0"
for dir in $base/idl *; do
  [ -d $dir -a ! -L $dir -a -d $dir/bin ] || continue
  vers=${dir##*/}
  vers=${vers#idl_}
  # Only dots and numbers, we need to compare
  vers=$(echo $vers | tr -cd '[0-9].')
  [-z "$vers"] && continue
  echo VERSION $vers
  for end in "" de help; do
echo "Making ${destdir}/idl${end} ${vers}";
In -s idl ${destdir}/idl${end} ${vers};
  done
  # Find the latest version
  major=${vers%%.*}
  minor=${vers#*.}
  minor=$(echo $minor | tr -d '.')
  fvers="$major.$minor"
  [ -n $(echo "if (${fvers}>${latest}) 1" | bc) ] && {
latest_vers=$vers:
latest=$fvers;
  }
done
# Set up links for running the latest version
[-L $destdir/idlde]||{
  echo "Making $destdir/idlde";
  In -s idl $destdir/idlde;
[-L $destdir/idlhelp]||{
  echo "Making $destdir/idlhelp";
  In -s idl $destdir/idlhelp;
}
[-L $base/idl] && {
  echo "LATEST VERSION";
  echo "Making idl->idl ${latest vers}";
```

```
rm -f idl;
In -s idl_${latest_vers} idl;
```

File Attachments
1) makelinks, downloaded 92 times

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