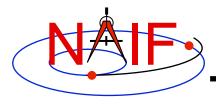


Navigation and Ancillary Information Facility

Getting and Installing the SPICE Toolkit



March 2010



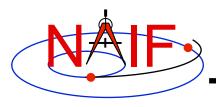
Getting Toolkit

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 All instances of the SPICE Toolkit are available 24x7 from the NAIF WWW server

http://naif.jpl.nasa.gov/naif/toolkit.html

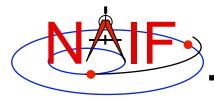
- No password or identification is needed
- To download a Toolkit package
 - Select language FORTRAN, C, IDL, or MATLAB
 - Select computer platform/OS/compiler combination
 - Download all toolkit package components
 - » package file toolkit.tar.Z (or toolkit.exe), cspice.tar.Z (or cspice.exe), icy.tar.Z (or icy.exe), or mice.tar.Z (or mice.exe)
 - » Installation script (if present) import*.csh
 - » Accompanying documents README, dscriptn.txt, whats, new



Don't Port it Yourself

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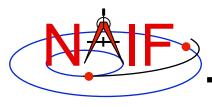
- The packages provided on the NAIF server have been built and tested by NAIF on these particular environments.
- We highly recommend you NOT try to port any instance of the Toolkit to some other environment, especially without consulting with NAIF first.
 - There are both portability issues and compiler optimization issues that must be carefully dealt with.



Installing Toolkit

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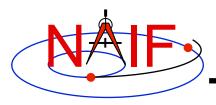
Terminal Window To install the Toolkit, follow the directions given in the README. Normally this consists of the following (not applicable for PC Windows): prompt> chmod u+x importSpice.csh prompt> ./importSpice.csh prompt> rm toolkit.tar • For PC Windows, execute the toolkit.exe application (or cspice or icy or mice) to expand the archive. > toolkit • You now have the expanded toolkit (or cspice or icy or mice) package.



Configuring Your Computer

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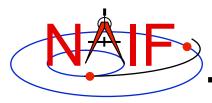
- For some programming environments there are required additional steps to prepare for programming using SPICE.
- For some programming environments there are recommended additional steps to make program development easier.
- Read the "Preparing for Programming" tutorial and the "README" file found in the Toolkit download directory for more information!



Checking It Out

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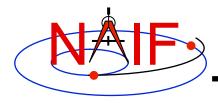
- Try the executables
 - Use tobin to convert the SPICE transfer format SPK and CK files supplied with the Toolkit to local binary.
 - » cook_01.tsp, cook_02.tsp, cook_01.tc, and cook_02.tc are found in the ../data directory
 - Use brief, ckbrief or spacit to summarize the converted kernels.
- Problems may occur if operating systems or compiler versions are out of sync
 - Rebuild the Toolkit using the script "makeall.csh" (or "makeall.bat") located in the "top level" directory (toolkit or cspice or icy or mice).
- In the rare circumstance that things still don't work, contact your System Administrator or NAIF.



Backup

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Getting the Toolkit using command line FTP

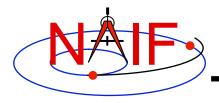


Command line FTP - 1

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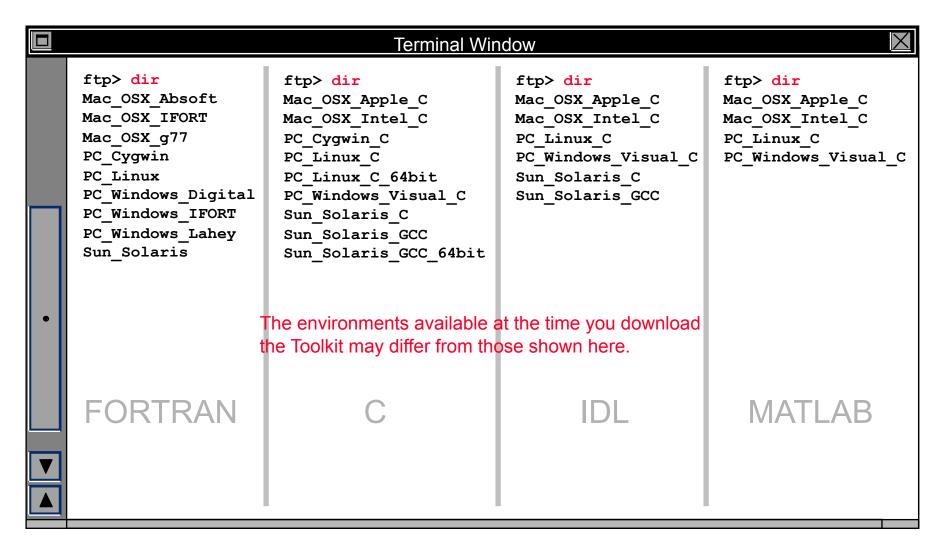
```
Terminal Window
prompt> ftp naif.jpl.nasa.gov
Connected to naif.jpl.nasa.gov
220 Welcome to the NAIF FTP service.
Name (your.sight:your name): anonymous
331 Please specify the password
Password: your@e.mail.address
230-
230-
230- I
                            Jet Propulsion Laboratory
230-
                                  WARNING
230-
                                 Property of the
230-
                             UNITED STATES GOVERNMENT
230- ====
230-
230 Login successful. Have fun.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> cd pub/naif/toolkit/<FORTRAN or C or IDL or MATLAB>
250 CWD command successful.
ftp> dir
```

Installing the SPICE Toolkit

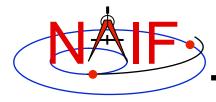


Command line FTP - 2

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Command line FTP - 3

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```
Terminal Window
ftp> cd <environment>/packages
ftp> binary
200 Type set to I
ftp> get toolkit.tar.Z
         ( or toolkit.exe
           or cspice.tar.Z or cspice.exe
           or icy.tar.Z or icy.exe
           or mice.tar.Z or mice.exe )
ftp> ascii
200 Type set to A
ftp> get importSpice.csh
         ( or importCSpice.csh
           or importIcy.csh
           or importMice.csh )
         ( not availabe for Windows environment )
ftp> get README
ftp> get dscriptn.txt
ftp> get whats.new
ftp> quit
```

Installing the SPICE Toolkit