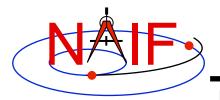


Navigation and Ancillary Information Facility

Getting and Installing the SPICE Toolkit



January 2012



Getting Toolkit

Navigation and Ancillary Information Facility

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

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

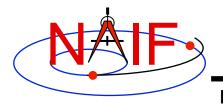
- No password or identification is needed
- To download a Toolkit package
 - Select language FORTRAN, C, IDL, or MATLAB
 - Select computer platform/OS/compiler combination
 - Download all toolkit package components
 - » package file toolkit.tar.Z (or toolkit.exe),

cspice.tar.Z (or cspice.exe),

icy.tar.Z (or icy.exe), or

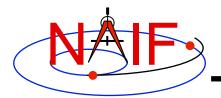
mice.tar.Z (or mice.exe)

- » Installation script (if present) import*.csh
- » Accompanying documents README, dscriptn.txt, whats,new



Don't Port it Yourself

- 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 portability issues and compiler optimization issues that must be carefully dealt with.

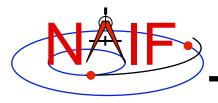


Installing Toolkit

	Terminal Window					
	 To install the Toolkit, follow the directions given in the README. Normally this consists of the following (not applicable for PC Windows): 					
	<pre>prompt> chmod u+x importSpice.csh prompt> ./importSpice.csh prompt> rm toolkit.tar</pre>					
•	 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. 					



- 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!

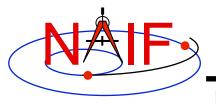


Checking It Out

Navigation and Ancillary Information Facility

• Try some executables

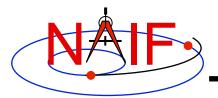
- Use tobin to convert the SPICE transfer format SPK and CK files supplied with the Toolkit to local binary.
 - » cook_01.tsp, cook_02.tsp, cook_01.tc, and cook_02.tc are found in the ../data directory
- Use brief, ckbrief or spacit to summarize the converted kernels.
- Problems may occur if operating 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.





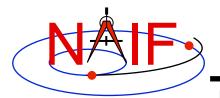
Navigation and Ancillary Information Facility

Getting the Toolkit using command line FTP



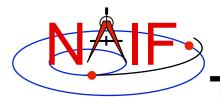
Command line FTP - 1

	Terminal Window	\times
	<pre>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- 230- 230- 230- 230- 230-</pre>	
• • •	230- UNITED STATES GOVERNMENT 230- ====================================	



Command line FTP - 2

	Terminal Window							
	<pre>ftp> dir Mac_OSX_Absoft Mac_OSX_IFORT Mac_OSX_g77 PC_Cygwin PC_Linux PC_Windows_Digital PC_Windows_IFORT PC_Windows_Lahey Sun_Solaris</pre>	<pre>ftp> dir Mac_OSX_Apple_C Mac_OSX_Intel_C PC_Cygwin_C PC_Linux_C PC_Linux_C_64bit PC_Windows_Visual_C Sun_Solaris_C Sun_Solaris_GCC Sun_Solaris_GCC_64bit</pre>	<pre>ftp> dir Mac_OSX_Apple_C Mac_OSX_Intel_C PC_Linux_C PC_Windows_Visual_C Sun_Solaris_C Sun_Solaris_GCC</pre>	<pre>ftp> dir Mac_OSX_Apple_C Mac_OSX_Intel_C PC_Linux_C PC_Windows_Visual_C</pre>				
•	T t							
	FORTRAN	С	IDL	MATLAB				
V								



Command line FTP - 3

