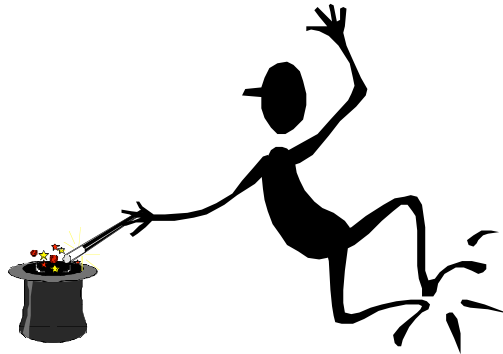
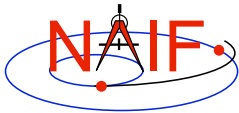


Getting and Installing the SPICE Toolkit

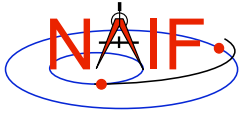


March 2006



Summary

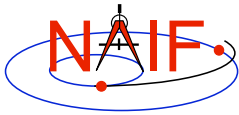
- **All instances of the SPICE Toolkit are available 24x7 from the NAIF anonymous ftp server**
 - FORTRAN, C, IDL
 - All supported platform/OS/compiler combinations
- **No password or identification is needed**
- **You may select a complete “package” or individual application/utility executables**
 - No need to select both!
- **If you select a package:**
 - first get and read the README instructions
 - use the installation script provided by NAIF (if there is one)
 - get and read the Toolkit description document (dscripnt.txt)



Don't Port It Yourself

Navigation and Ancillary Information Facility

- Get the package for one of the environments supported by NAIF that has been built and tested for you.
 - We highly recommend you **NOT** try to port any instance of the Toolkit to some other environment without consulting with NAIF first.
 - » There are both portability issues and compiler optimization issues that must be carefully dealt with.



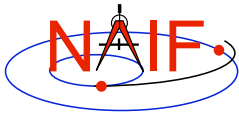
ftp - 1

Navigation and Ancillary Information Facility

```
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- |                               Jet Propulsion Laboratory           |
230- |               * * *   W A R N I N G   * * *                       |
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>
250 CWD command successful.
ftp> dir
```



ftp - 2

Navigation and Ancillary Information Facility

```
Terminal Window

ftp> dir
HP
Mac_OSX_Absoft
Mac_OSX_g77
PC_Cygwin
PC_Linux
PC_Win95NT_DigitalFORTRAN
PC_Windows_Lahey
Sun_Solaris
VAX

FTP: [1]

      FORTTRAN

ftp> dir
HP_C
Mac_OSX_Apple_C
PC_Cygwin_C
PC_Linux_C
PC_Windows_Visual_C
Sun_Solaris_C
Sun_Solaris_GCC

FTP: [1]

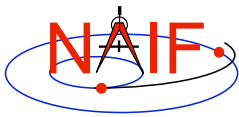
      C

ftp> dir
Mac_OSX_Apple_C
PC_Linux_C
PC_Windows_Visual_C
Sun_Solaris_C
Sun_Solaris_GCC

FTP: [1]

      IDL
```

The environments available at the time you download the Toolkit may differ from those shown here.

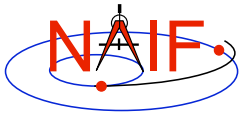


Copying the Toolkit and Installation

Navigation and Ancillary Information Facility

```
Terminal Window

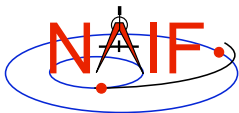
ftp> cd <environment>/packages
ftp> binary
200 Type set to I
ftp> get toolkit.tar.Z
      ( or toolkit.exe
        or cspice.tar.Z
        or cspice.exe
        or icy.tar.Z
        or icy.exe )
. . .
ftp> ascii
200 Type set to A
ftp> get importSpice.csh
      ( not present for Windows environment )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



```
Terminal Window

Follow the directions given in the README
Normally this consists of the following (n/a for PC Windows and Mac):

prompt> chmod u+x importSpice.csh
prompt> ./importSpice.csh
prompt> rm toolkit.tar
```



Check It Out

- **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*” that is located in the “top level” directory (*toolkit* or *cspice* or *icy*).
- **In the rare circumstance that things still don’t work, contact your System Administrator or NAIF.**