

Installing FRED v0r100p1

Fred v0r100p1 is the patch provided for a bug discovered in Fred v0r100.

PROBLEM

When running Glean (from GlastRelease-v15r49), Fred v0r100 would not launch, and instead this is as far as Fred v0r100 would go when passed a ".ior" file:

```
CORBA HepRep Object Ready
#####
## FRED version v0r100 "Calvin"
## Mon Jun 19 09:44:22 W. Europe Daylight Time 2006
## Authors: R.Giannitrapani M.Frailis
## Contact: riccardo@fisica.uniud.it
## Web site: www.fisica.uniud.it/~glast/FRED
#####
./kernel/modules/Help/module.rb:38: warning: Insecure world writable dir /afs/slac/g/glast/ground in PATH,
mode 040777
Wow, I've been requested by Fred, v1.0
Replied with GlastServer version=0.1;dataFormat=heprep2;setEventCommand=next,commands,getEventId,fluxes,
source,back,eventId,eventIdx,openfile
I've just given to Fred, v1.0 an HepRep object
FXRbToolBar::create: trying to create window before creating parent window.
```

A windows briefly popped up and then disappeared with that last error message. Analogously, when on the Windows operating system, FRED v0r100 would throw the following error:

```
#####
## FRED version v0r100 "Calvin"

## Mon Jun 19 09:49:41 W. Europe Daylight Time 2006    ## Authors: R.Giannitrapani M.Frailis
## Contact: riccardo@fisica.uniud.it
## Web site:[www.fisica.uniud.it/~glast/FRED]
```

```
http://www.fisica.uniud.it/%7Eglast/FRED/]
```

```
; #####
Wow, I've been requested by Fred, v1.0
Replied with GlastServer version=0.1;dataFormat=heprep2;setEventCommand=next,com
mands,getEventId,fluxes,source,back,eventId,eventIdx,openfile
I've just given to Fred, v1.0 an HepRep object
```

**./kernel/gui/FredMainWindow.rb:961: [BUG] Segmentation fault
ruby 1.8.2 (2004-12-25) [i386-mswin32]**

SOLUTION

✓ The solution for both errors is to fix a line in [kernel/gui/FredMainWindow.rb](#) in the Fred v0r100 distribution. On line 954 (in the "addToolBar" procedure), I changed

@toolbars[name] = FXToolBar.new(temp,

to

@toolbars[name] = FXToolBar.new(@toolbarBox

And that is the change in Fred v0r100p1.

+ Prerequisites (Linux only)

- **ruby 1.8.2** (although you should be able to run FRED also on 1.8.0 and 1.8.1, and it works for ruby 1.8.6)
- The external library, fox-1.4.34-gl1 (which is just fox-1.4.34 build against the X window system via setting the "--with-x" option for the "configure" script)

- Locations

- RHEL4-32

- /afs/slac/g/glast/ground/GLAST_EXT/rhel4_gcc34/fox/

- RHEL3-32

How to Install (Linux, rhel4-32bit)

Linux operating system

FRED is already prepackaged so no need to build anything. You just obviously need the FRED v0r100p1 package 😊.

1. FRED v0r100p1 is available at SLAC in /afs/slac/g/glast/ground/GLAST_EXT/rhel4_gcc34/Fred/FredLinux-v0r100p1.tar
2. Extract the contents of FredLinux-v0r100p1.tar

```
tar -xvf FredLinux-v0r100p1.tar
```

Windows operating system

1. FRED v0r100p1 is available at SLAC in /nfs/farm/g/glast/u05/extlib/VC8/FRED-v0r100p1.zip
 - a. ⚠ When using ftp to get the zip file, set the mode to "binary"

```
i. F:\somedirection> ftp ftp.slac.stanford.edu
ftp> binary
200 Type set to I
ftp> cd /nfs/farm/g/glast/u05/extlib/VC8
250 CWD command successful
ftp> get FRED-v0r100p1.zip
```

2. Extract the contents of FRED-v0r100p1.zip

➖ Using the DOS, "unzip," command to extract the contents of FRED-v0r100p1.zip prevents FRED from launching, and throws an error:

```
CORBAHepRepServerIOR=IOR:010000001700000049444c3a4865704576656e745365727665723a3
12e300000010000000000000000064000000010102000d00000003139322e3136382e36312e310000151
10e000000fe6ef21e4a000012180000000000000020000000000000008000000010000000054544
1010000001c00000001000000010001000100000001000105090101000100000009010100
CORBA HepRep Object Ready
#####
## FRED version v0r100 "Calvin"
## Mon Jun 19 09:49:41 W. Europe Daylight Time 2006
## Authors: R.Giannitrapani M.Frailis
## Contact: riccardo@fisica.uniud.it
## Web site: www.fisica.uniud.it/~glast/FRED
#####
```

```
./kernel/Fred.rb:100:in `[]': no implicit conversion from nil to integer (TypeError)
from ./kernel/Fred.rb:100:in `loadModules'
from ./kernel/Fred.rb:44:in `initFred'
from ./kernel/main.rb:38
from F:/glast/extlib/Fred/v0r100p1/vc71/fred.rb:276:in `load'
from F:/glast/extlib/Fred/v0r100p1/vc71/fred.rb:276:in `bootFRED'
from F:/glast/extlib/Fred/v0r100p1/vc71/fred.rb:289
```

➕ To avoid the above error, I recommend using a program like WinZip or 7-zip to extract the contents of FRED-v0r100p1.zip. Basically, avoid using the DOS "unzip" command on FRED-v0r100p1.zip