

Installing GRTensorII for Maple in Mac OS X

These are step-by-step instructions to install GRTensorII for Maple in OS X.

These instructions can be applied to recent versions of Maple and have been tested on Maple 2016.

0. Quit Maple if it's running.

1. Download the file grii6-1.79.tar.gz from

<http://grtensor.phy.queensu.ca/software>

to your desktop.

2. If it doesn't get unzipped automatically, double click the grii6-1.79.tar.gz file on the desktop to make a new folder grii .

3. Open the folder grii on your desktop and open maple.sample by a text editor application like TextEdit.

4. At the very last part just next to `grOptionloadPath := <metric_dir>`: add another line

```
grOptionMetricPath := `:usr:local:grii:metrics`:
```

5. Open the Terminal application and change to the grii directory with the command:

```
cd Desktop/grii
```

6. Still in the terminal, run the GRTensor installer as root:

```
sudo ./Install.unix
```

7. Copy the mapleinit.le to your home directory:

```
cp /usr/local/grii/mapleinit.sample ~/.mapleinit
```

8. You can now safely delete the grii directory from your desktop.

9 (optional). To look at your file in Finder click Go and choose Go to Folder (Macintosh HD must be selected in Finder). A window will open and you can type

/usr/local/grii/lib

and you can look at the mapleinit.sample.

10. Until we fix the sqrt issue you can put this line after restart in your worksheet

```
kernelopts(unread = 'sqrt');
```

11. The termination of files on Mac is now as in UNIX. You can include the following after the line above in your worksheet.

```
grF_hostfile := FromInert(subs(_Inert_NAME(":") = _Inert_ASSIGNEDNAME("/",  
"PROC", _Inert_ATTRIBUTE(_Inert_EXPSEQ(_Inert_NAME("protected",  
_Inert_ATTRIBUTE(_Inert_NAME("protected"))), _Inert_NAME("_syslib")))),  
ToInert(eval(grF_hostfile))));
```

12. Portions of these notes are updated from notes by S. Mirshekari dated 2010 and we thank Edgardo Cheb-Terrab.

Kayll Lake May 4, 2016.