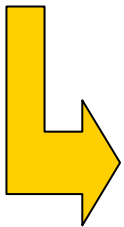


GINs-PC tool: Needs

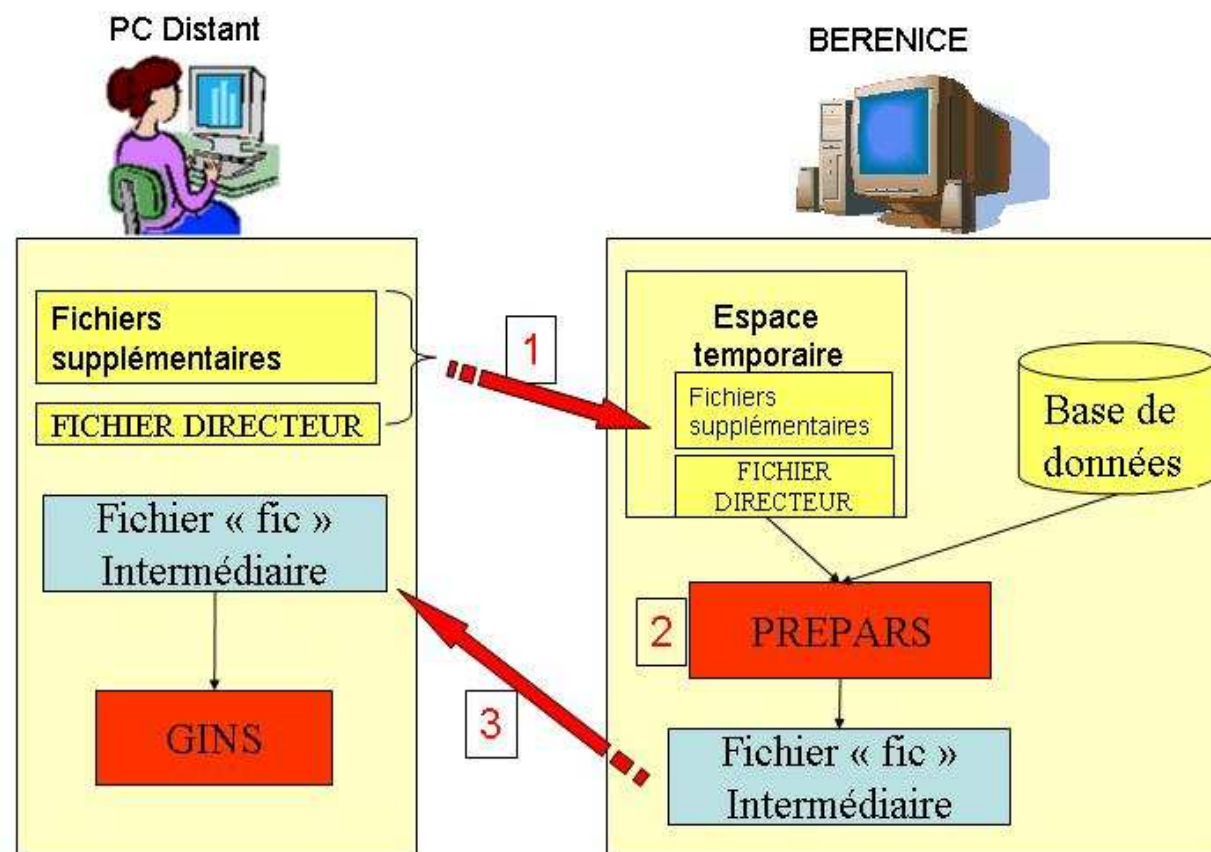
- use GINS software outside CNES network
- database is private

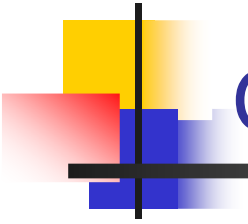


- Usage with a Linux computer:
 - 2Go memory
 - harddisk 50-100Go
 - software: - Perl v5.8 (freeware)

Connection to the computer Berenice to use the database and run PREPARS90

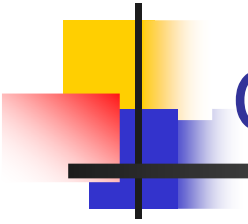
GINs-PC tool: Architecture (1)





GINs-PC tool: Architecture (2)

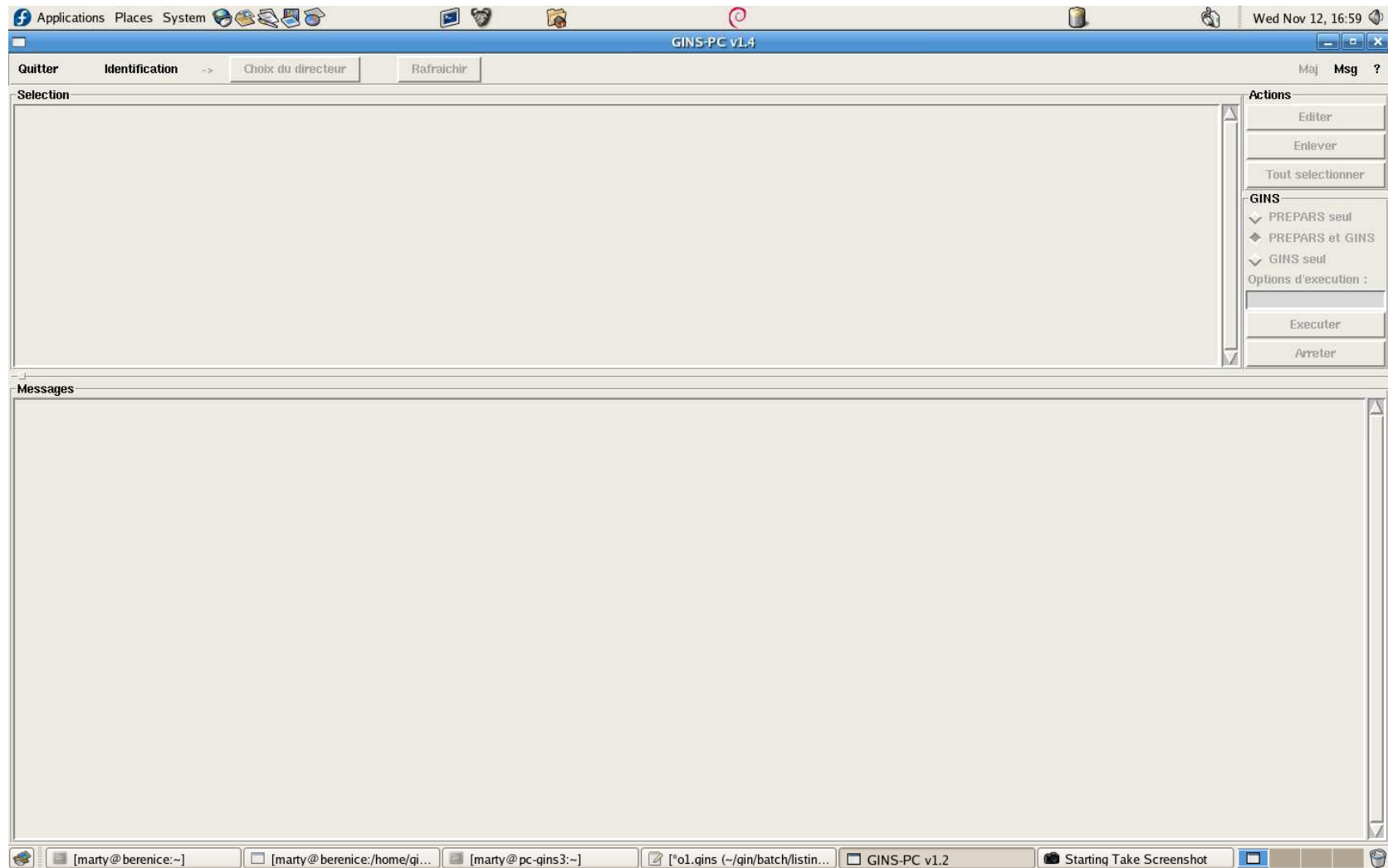
- Directories tree for GINS
 - gin/data/directeur: directives files
 - gin/batch/orbite: ephemeris
 - gin/batch/listing: listings
 - gin/batch/statistiques
 - gin/batch/eqna: normal equations
 - gin/batch/archives: archives downloaded from Berenice



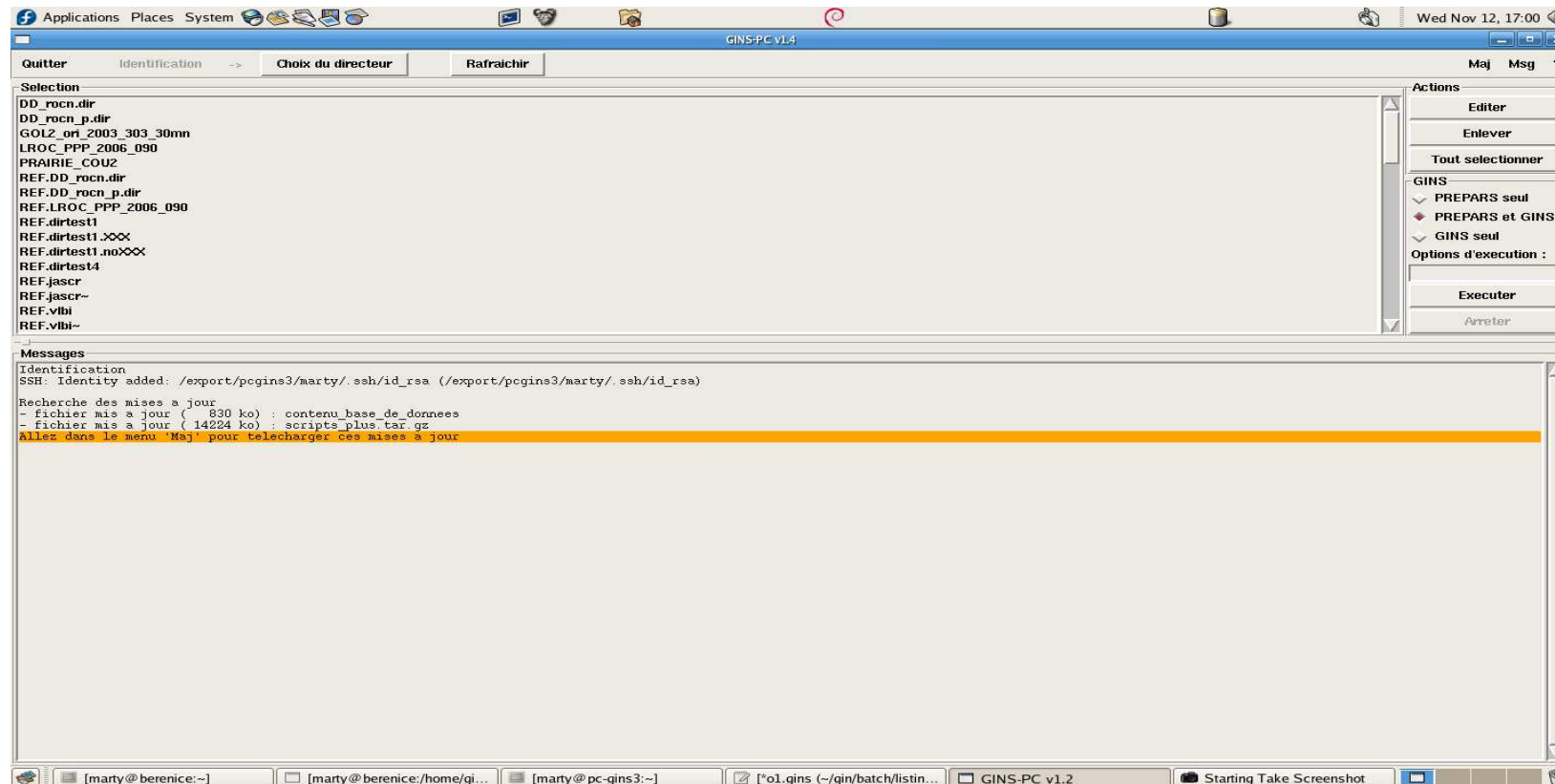
GINS-PC tool: Acces

- Users who have signed a convention
- Acces autorisation to Berenice:
 - With a given IP number
 - A username
- if OK: installation kit of the software sent by mail (cf. GINS_PC User manual)

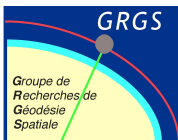
GINs-PC tool: IHM

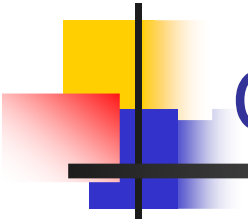


GINS-PC tool: IHM – Archives download



Archive installation is automatic

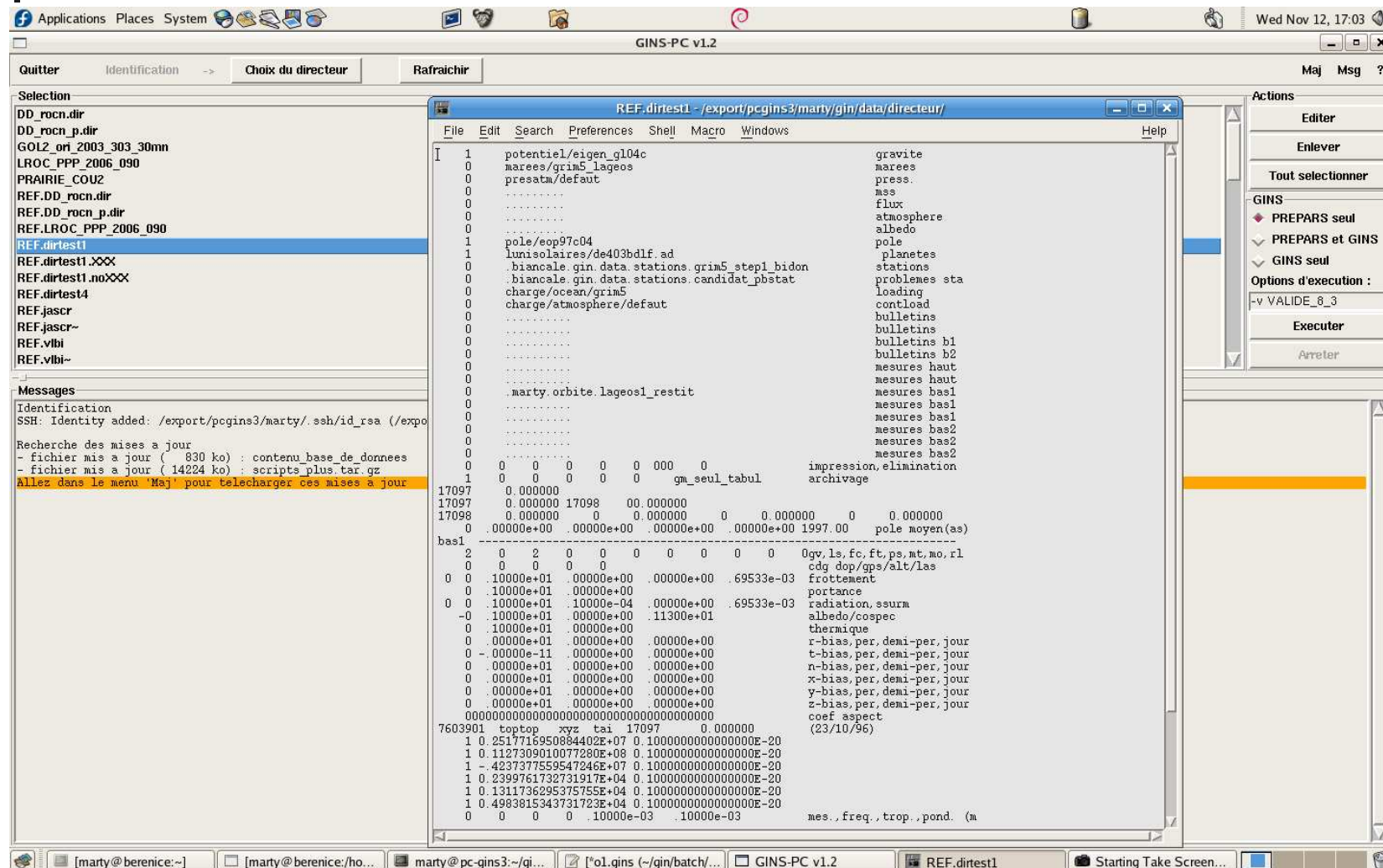




GINs-PC:— special archives

- Contenu_base_de_données
 - Reference files
 - pole/eop97c04_itrf2008g
 - stations/ITRF2008_officiel
- Files for GPS softwares

GINs-PC tool: IHM – directive file edition



GINs-PC tool: IHM – directive file edition(2)

The screenshot displays the GINS-PC v1.4 software interface. The main window is titled "REF.dirtest1.XXX - /export/pcgins3/marty/gin/data/directeur/" and contains a text editor with a directive file. The file includes various parameters and their values, such as "mesures haut", "mesures bas1", "mesures bas2", "impression, elimination", "gm_seul_tabul", "pole moyen(as)", "DATES", "POLEM", "TYPES", "FORCE", "XXC06", "PROTT", "PORTA", "RADIO", "ALBEM", "THERM", "RBIAS", "TBIAS", "NBIAS", "XBIAS", "YBIAS", "ZBIAS", "ASPEC", "ENTBU", "CEUL1", "CEUL2", "CEUL3", "CEUL4", "CEUL5", "CEUL6", "MESPA", "FINME", "INTEG", "TYPES", and "LIBAT".

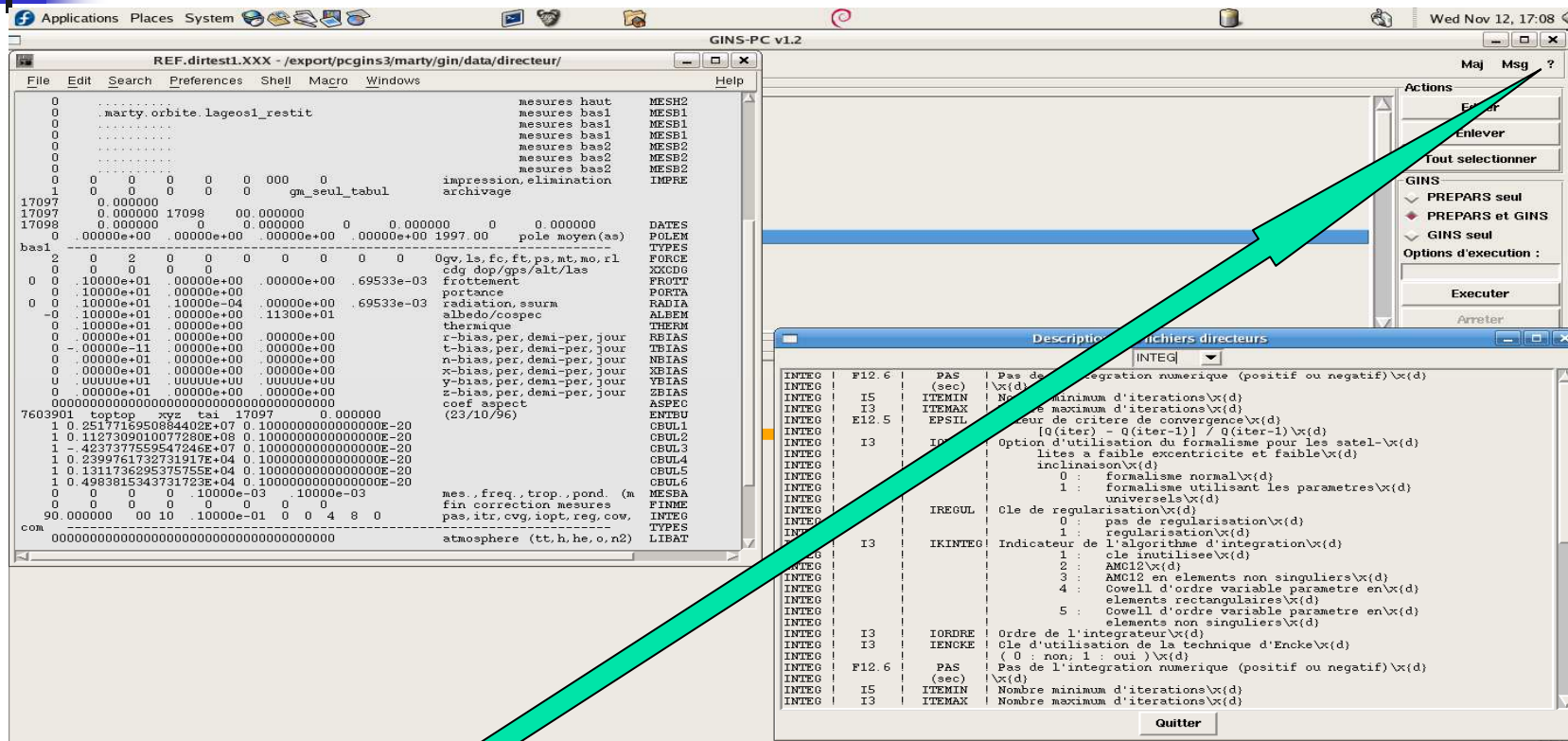
On the right side, there is a panel titled "Actions" with buttons for "Editer", "Enlever", "Tout sélectionner", "Executer", and "Arrêter". Below this panel, there is a section for "GINs" with checkboxes for "PREPARS seul", "PREPARS et GINS", and "GINs seul".

In the foreground, a window titled "Description des fichiers directeurs" is open, showing a list of parameters and their descriptions. The parameters listed include:

- INTEG | F12.6 | PAS (sec) | Pas de l'integration numerique (positif ou negatif)\x(d)
- INTEG | 15 | ITEMIN | Nombre minimum d'iterations\x(d)
- INTEG | 13 | ITEMAX | Nombre maximum d'iterations\x(d)
- INTEG | E12.5 | EPSIL | Valeur de critere de convergence\x(d)
- INTEG | 13 | IOPT | Option d'utilisation du formalisme pour les satel-\x(d)
- INTEG | | | | lites a faible excentricite et faible\x(d)
- INTEG | | | | inclinaison\x(d)
- INTEG | | | | 0 : formalisme normal\x(d)
- INTEG | | | | 1 : formalisme utilisant les parametres\x(d)
- INTEG | | | | universels\x(d)
- INTEG | 13 | IREGUL | Cle de regularisation\x(d)
- INTEG | | | | 0 : pas de regularisation\x(d)
- INTEG | | | | 1 : regularisation\x(d)
- INTEG | 13 | IKINTEG | Indicateur de l'algorithme d'integration\x(d)
- INTEG | | | | 1 : cle inutilisee\x(d)
- INTEG | | | | 2 : AMC12\x(d)
- INTEG | | | | 3 : AMC12 en elements non singuliers\x(d)
- INTEG | | | | 4 : Cowell d'ordre variable parametre en\x(d)
- INTEG | | | | elements rectangulaires\x(d)
- INTEG | | | | 5 : Cowell d'ordre variable parametre en\x(d)
- INTEG | | | | elements non singuliers\x(d)
- INTEG | 13 | IORDRE | Ordre de l'integrateur\x(d)
- INTEG | 13 | IENCKE | Cle d'utilisation de la technique d'Encke\x(d)
- INTEG | | | | (0 : non; 1 : oui)\x(d)
- INTEG | F12.6 | PAS (sec) | Pas de l'integration numerique (positif ou negatif)\x(d)
- INTEG | 15 | ITEMIN | Nombre minimum d'iterations\x(d)
- INTEG | 13 | ITEMAX | Nombre maximum d'iterations\x(d)

The "Description des fichiers directeurs" window has a "Quitter" button at the bottom.

GINs-PC tool: IHM – On-line help

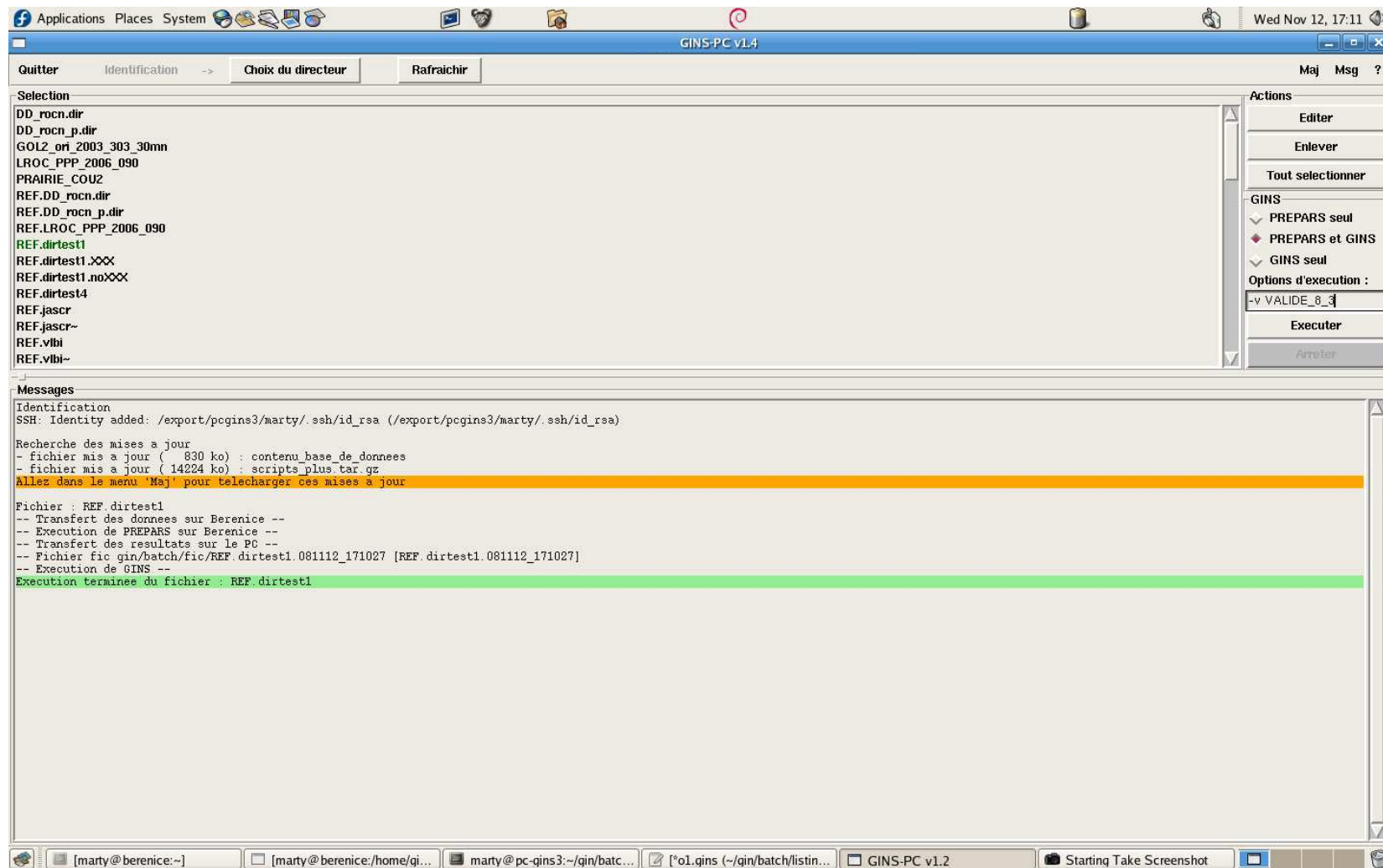


IHM User Manual

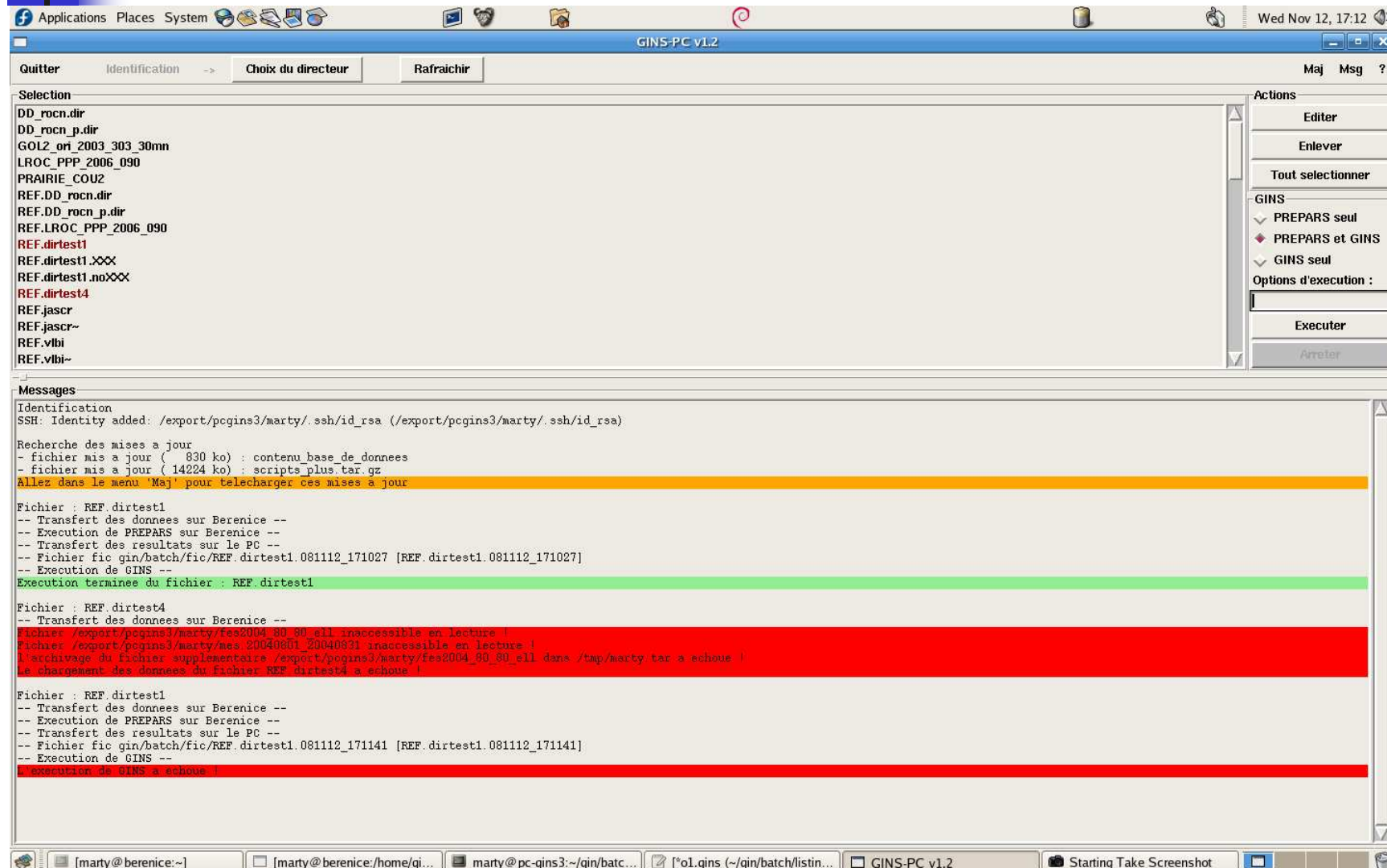
Softwares help

Directive file description

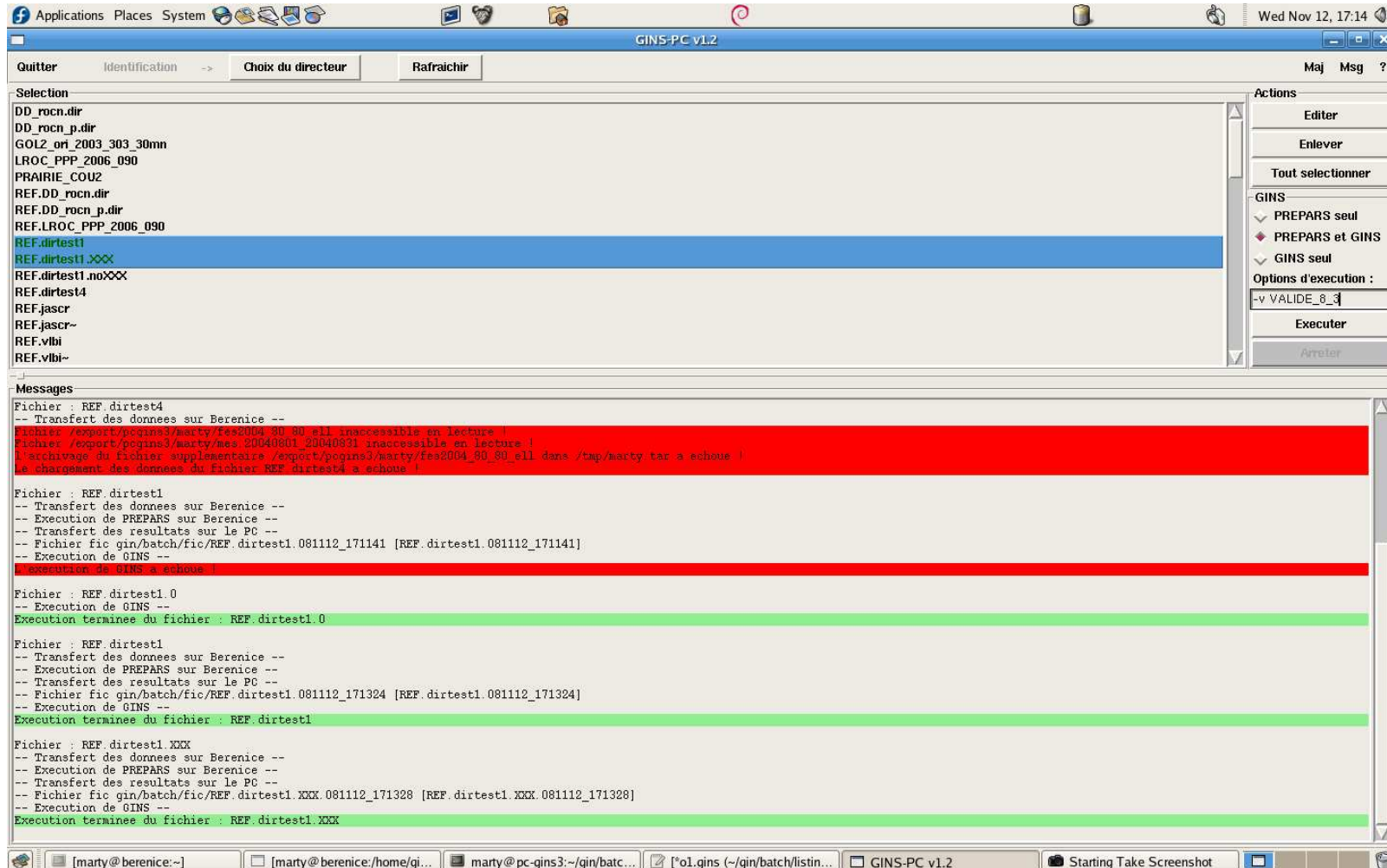
GINs-PC tool: IHM – Execution of GINS



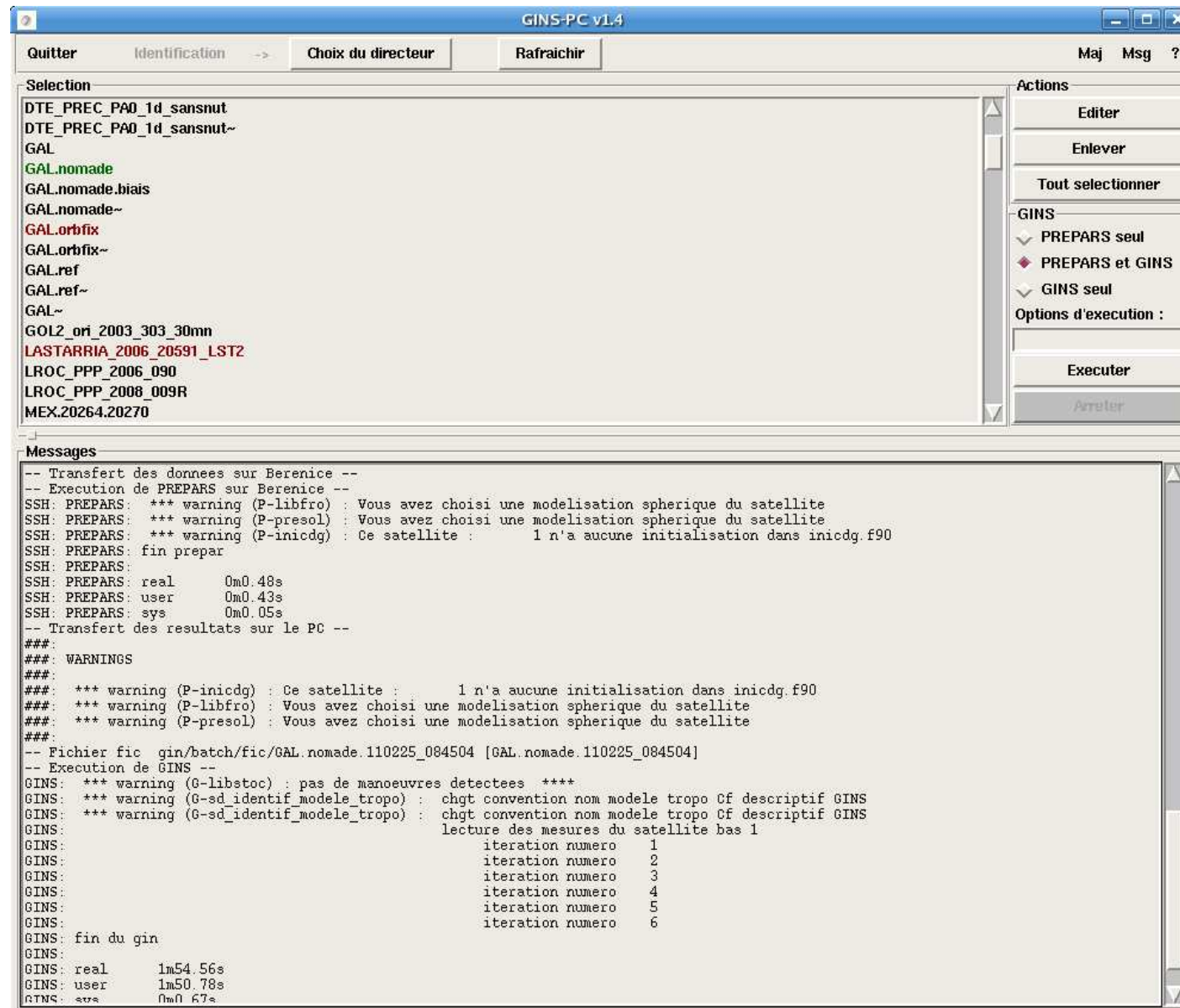
GINs-PC tool: IHM – Execution of GINS (2)

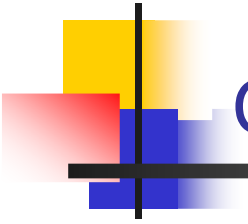


GINS-PC tool: IHM – Execution of GINS (3)



GINS-PC tool: IHM – Execution of GINS (4)



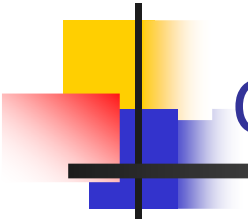


GINs-PC tool: IHM – Preferences

- .ginspc file

```
# fichier de preferences pour l'application gins-pc  
  
# $Id$  
  
# format :  
  
# <nom> = <valeur>  
cmdPDF=kpdf  
editeur=nedit  
lang=en  
#exeginsOK = 1  
  
#archivesSrv = /export/berenice0/ginsatos/ginspc/archives
```

- options described in the On-line User Manual



GINs-PC tool: Practical

- Different kind of practice
 - GNSS
 - Static and kinematic PPP
 - Local network
 - Time frequency transfer
 - ...