



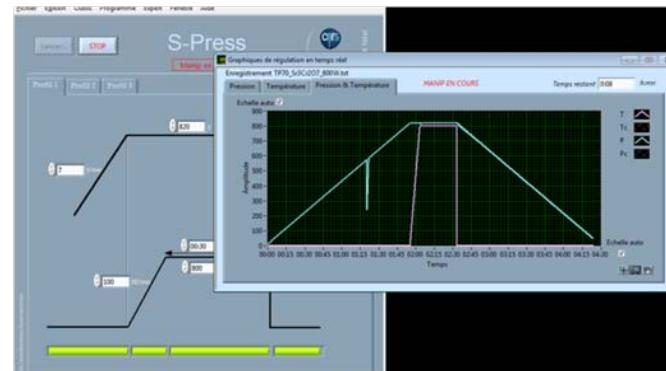
## Déploiement LabVIEW : d'une plateforme à l'autre ?

Sabine DOUILLET

## Presses de synthèses sous très hautes pressions et hautes températures



Mai 2014: Fin du support XP



- Instruments à piloter: régulateurs Eurotherm, interface Ethernet, protocole Modbus over Ethernet
- PC connecté au réseau du Labo pour la supervision à distance et le transfert des données

Ras le bol des mises à jour Windows!



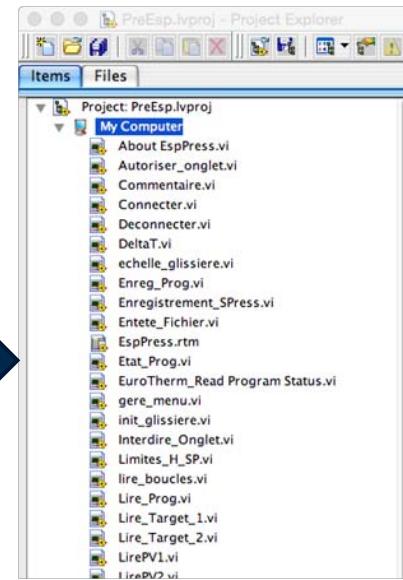
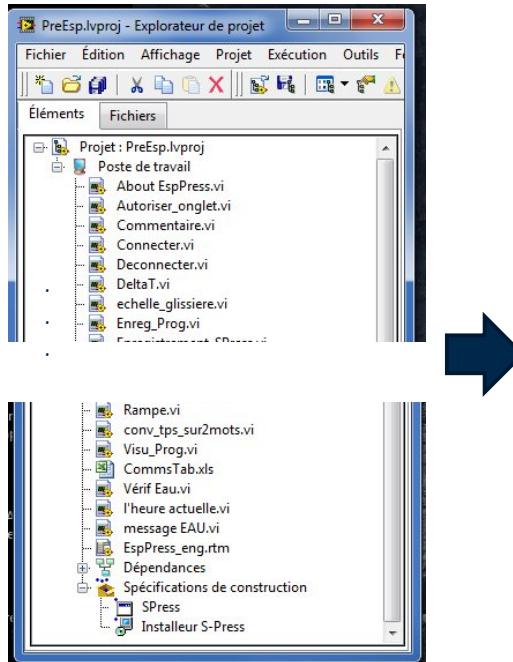
OS X

Pourquoi pas?

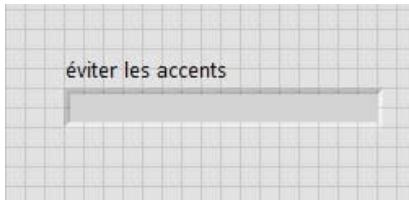
- Il faut un Mac pour le développement
- Il faut une licence LabView pour MacOS

- **Les problèmes rencontrés et comment les éviter**

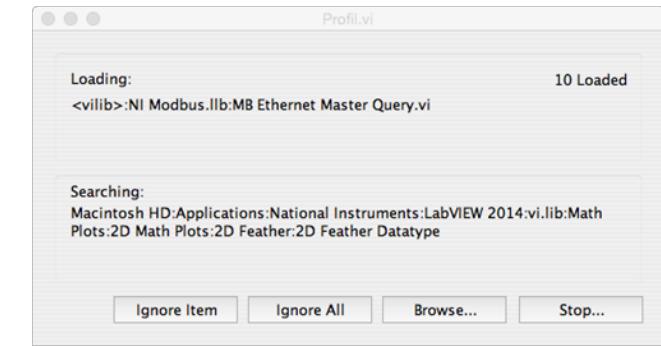
➤ Projet:



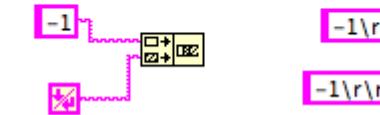
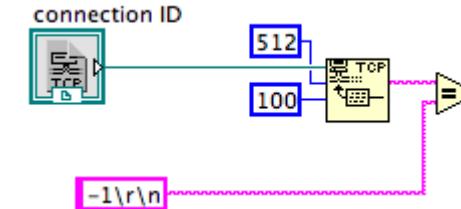
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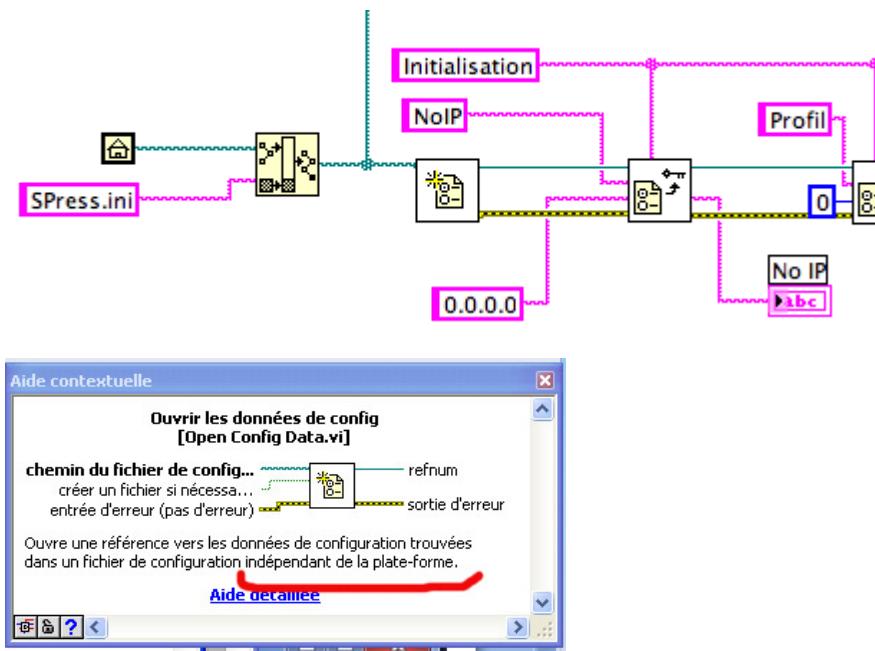


➤ Librairies:

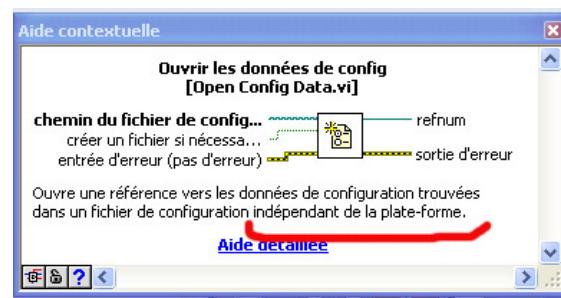
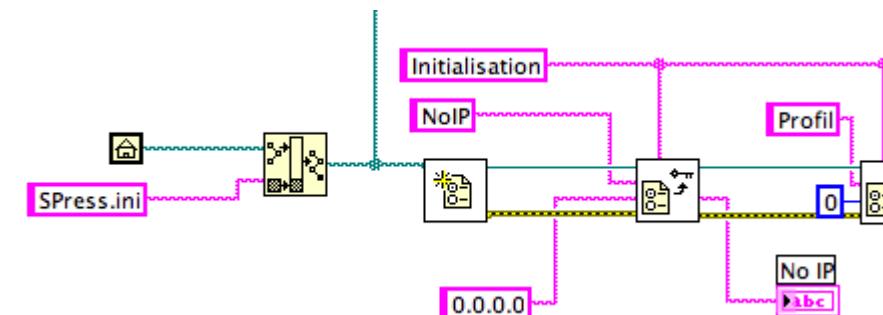


➤ Diagramme:





```
[SPress]
DebugServerEnabled=False
DebugServerWaitOnLaunch=False
useLocaleDecimalpt=False
[Initialisation]
NoIP = "147.173.144.26"
Adresse_CommsTab = 46249
Ad_Duree segment1 = 25108
Ad_Duree segment2 = 25190
Ad_Duree segment3 = 25272
Ad_Duree segment4 = 25354
Ad_Duree segment5 = 25764
Ad_Duree segment6 = 25846
Ad_Duree segment7 = 25928
Profil = 0
```



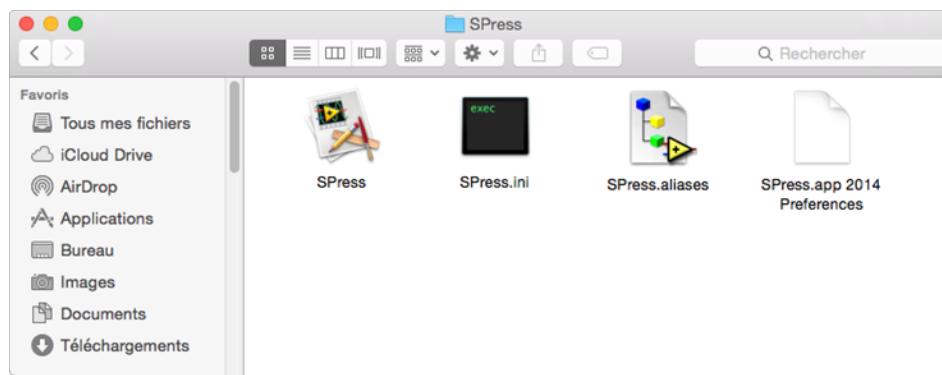
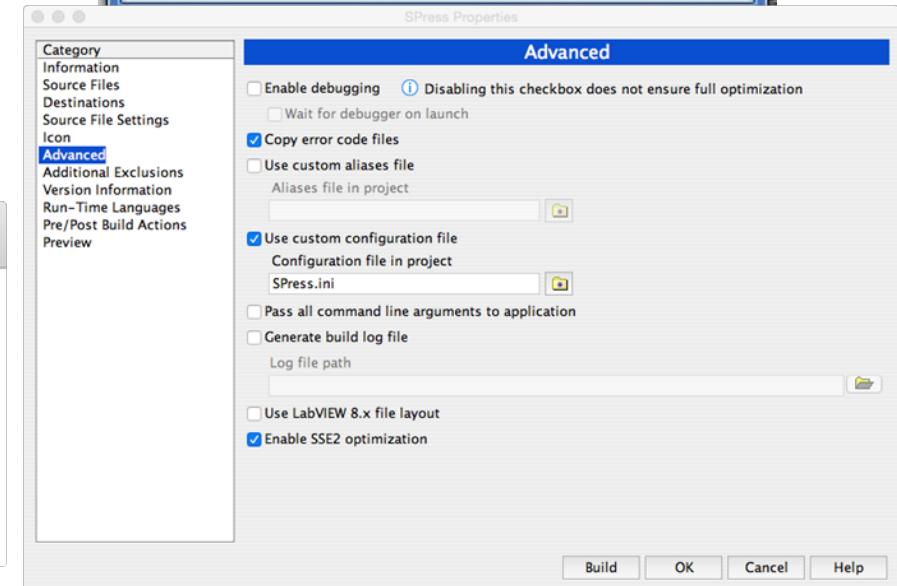
SPress.ini - Bloc-notes

Fichier Edition Format Affichage ?

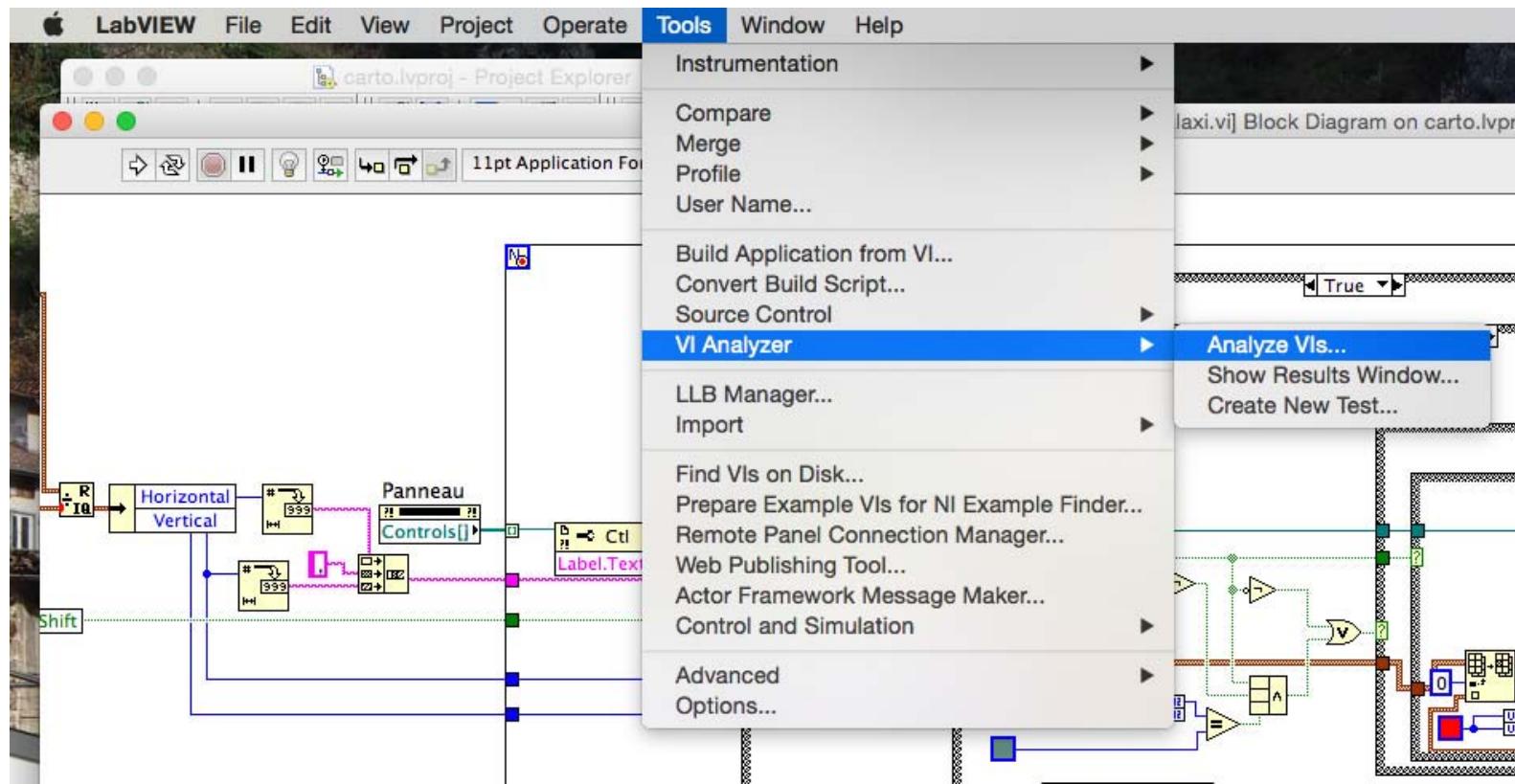
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- **Un outil LabView pour nous aider: VI Analyser**



VI Analyzer - Select Tests

Select the checkbox next to a test or group to include it in the analysis. Configure a selected test with the options under **Selected Test's Configuration**.

**Tests**

- Block Diagram
- Complexity Metrics
- Documentation
- Front Panel
- ▼  General
  - File Properties
  - Icon and Connector Pane
  - ▼  VI Properties
    - Broken VI
    - Built Application Compatibility
    - Driver Usage
    - Platform Portability
    - Removed Diagram
    - Toolkit Usage
    - VI Lock State

**Selected Test's Configuration**

No Configuration Necessary

Maximum Reported Failures      Test Ranking

5      Low

Checks for potential problems that might occur when you attempt to port a VI from one operating system to another.

- **Comment éviter les problèmes = Programmer « propre »**
  - Pas de chemin en dur
  - Ne pas utiliser de polices exotiques
  - Utiliser au maximum les outils à disposition dans LabView (ex. palette fichier de configuration)
  - Préférer les instruments sur Ethernet et les protocoles « standards »
- **Mais ce n'est pas toujours possible**
  - Utilisation de dll
  - Driver d'instrument disponible uniquement pour Windows
  - Carte d'acquisition au format PCI...
  - ...