

Application: gvSIG desktop - gvSIG bugs #4042
gvSIG native libraries path is added after the system one

01/21/2016 05:45 PM - Antonio Falciano

Status:	Closed	% Done:	0%
Priority:	Normal	Spent time:	0.00 hour
Assignee:	Joaquín del Cerro Murciano		
Category:	Application		
Target version:	2.3.0-2419 (rev. org.gvsig.desktop-2.0.125)		
Severity:	Major	Add-on version:	
gvSIG version:	2.3.0	Add-on build:	
gvSIG build:	2415	Add-on resolve version:	
Operative System:		Add-on resolve build:	
Keywords:		Proyecto:	
Has patch:		Hito:	
Add-on name:	Unknown		

Description

The gvSIG native libraries path is added after the system one, so the system libraries are loaded first. This can cause issues like those described in #3848 and #4013. So the gvSIG native libraries (e.g. GDAL/OGR ones) should be loaded first in gvSIG.sh:

```
#####  
# gvSIG native libraries location  
#####  
  
export GVSIG_NATIVE_LIBS=""  
export LD_LIBRARY_PATH=""  
export PATH  
  
add_library_path() {  
  #logger_info "add_library_path $1"  
  LD_LIBRARY_PATH="$1${CPSEP}$LD_LIBRARY_PATH"  
  GVSIG_NATIVE_LIBS="$1${CPSEP}$GVSIG_NATIVE_LIBS"  
  PATH="$1${CPSEP}$PATH"  
}  
  
list_shared_library_dependencies() {  
  logger_info "Checking shared library dependencies for $1"  
  if [ "$OS" = "win" ]; then  
    logger_cmd ./cygcheck.exe "$1"  
  else  
    logger_cmd ldd "$1"  
  fi || logger_warn "Problems checking shared library $1" || true  
}  
  
add_classpath() {  
  GVSIG_CLASSPATH="$1${CPSEP}$GVSIG_CLASSPATH"  
}
```

Related to #3848 and #4013.

Associated revisions

Revision 42667 - 02/01/2016 09:03 PM - Joaquín del Cerro Murciano

refs #4042, cambiado el orden de búsqueda de las nativas para que primero busque en la instalación de gvSIG y luego en el sistema.

Revision 42675 - 02/02/2016 06:09 PM - Joaquín del Cerro Murciano

refs #4042

Revision 42723 - 02/15/2016 10:31 AM - Joaquín del Cerro Murciano

refs #4042, corregido para que en linux use primero las nativas que lleva gvSIG y después las del sistema.

History

#1 - 01/22/2016 11:53 AM - Antonio Falciano

I've tested the fix reported above and found that it helps to prevent issues like #3848 and #4013. Because we can't isolate gvSIG in a virtual environment (because it depends by some system libraries), we have to load its libraries before than the system ones.

#2 - 01/28/2016 12:00 PM - Antonio Falciano

- *File gvsigsh_path.patch added*

In order to reproduce the issue on a win machine:

- install the GDAL/OGR libraries standalone (or coming from OSGeo4W), e.g. 1.11.0 version;
- add the GDAL binary folder to the PATH environmental variable;
- execute gvSIG and then check the gvSIG-launcher.log.

Result: checking the shared library dependencies of gdaljni.dll used by gvSIG, you'll see the GDAL system dlls among the dependencies and not the gvSIG one. So the GDAL system libraries are loaded accidentally instead of gvSIG ones.

Solution: we need only to invert the order of concatenation of PATH variable to avoid to "see" GDAL/OGR libraries eventually installed on the system before than gvSIG ones. I attach a patch that solves the issue.

Has patch: yes

#3 - 02/01/2016 09:04 PM - Joaquín del Cerro Murciano

- *Target version changed from 2.3.0-2447-final (rev. org.gvsig.desktop-2.0.153) to 2.3.0-2418 (rev. org.gvsig.desktop-2.0.124)*
- *Assignee set to Joaquín del Cerro Murciano*
- *Status changed from New to Fixed*

#4 - 02/02/2016 03:56 PM - Antonio Falciano

- *Target version changed from 2.3.0-2418 (rev. org.gvsig.desktop-2.0.124) to 2.3.0-2447-final (rev. org.gvsig.desktop-2.0.153)*
- *Status changed from Fixed to New*

Hi Joaquin,
it should be:

```
add_library_path() {  
  #logger_info "add_library_path $1"  
  LD_LIBRARY_PATH="$1${CPSEP}$LD_LIBRARY_PATH"  
  GVSIG_NATIVE_LIBS="$1${CPSEP}$GVSIG_NATIVE_LIBS"  
  PATH="$1${CPSEP}$PATH"  
}
```

The \$ is missing before {CPSEP} in build 2418, so I reopen the ticket.

#5 - 02/02/2016 06:08 PM - Joaquín del Cerro Murciano

- Target version changed from 2.3.0-2447-final (rev. org.gvsig.desktop-2.0.153) to 2.3.0-2419 (rev. org.gvsig.desktop-2.0.125)

Antonio Falciano wrote:

```
| Hi Joaquin,  
| it should be:  
| [...]The $ is missing before {CPSEP} in build 2418, so I reopen the ticket.
```

Aaayyy ya lo he visto, que error tan tonto... lo corrijo y hago otro build.

Gracias.

#6 - 02/02/2016 06:14 PM - Joaquín del Cerro Murciano

- Status changed from New to Fixed

#7 - 02/03/2016 09:59 AM - Antonio Falciano

- Status changed from Fixed to Closed

Files

gvsigsh_path.patch	1.05 KB	01/28/2016	Antonio Falciano
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