Subject: Core - App.cpp - GetDataFile
Posted by 3togo on Tue, 09 May 2006 19:48:46 GMT
View Forum Message <> Reply to Message

I think that no matter exec program is running under posix or windows, GetDataFile should always get the current working directory(getcwd) and concat with *filename.

However, the present release behaves differently on these two different systems.

I suggest replace GetHomeDirectory() below with GetCWD()

```
String& GetCWD() {
 char buffer[100];
       int size = 100;
 getcwd(buffer,size);
 static String ss;
 ss.Cat(buffer);
 return ss;

}
```

Regards,

3togo

```
  ************************************************************
App.cpp
  ************************************************************ *
String GetDataFile(const char *filename)
{
 String s = Environment().Get("UPP_MAIN__",
#ifdef PLATFORM_WIN32
                        GetFileFolder(GetExeFilePath())
#endif
#ifdef PLATFORM_POSIX
                        GetHomeDirectory()
#endif
 );

 return AppendFileName(s, filename);
}
```

Subject: Re: Core - App.cpp - GetDataFile
Posted by mirek on Tue, 09 May 2006 21:14:06 GMT
View Forum Message <> Reply to Message

3togo wrote on Tue, 09 May 2006 15:48I think that no matter exec program is running under posix or windows, GetDataFile should always get the current working directory(getcwd) and concat with *filename.

What makes you think so?

GetDataFile is intended for files that are shipped with application. The most logical place in Win32 is therefore the same dir as where .exe resides (in Linux this is still to be decided, however I am starting to think that GetExeDirFile would be a good idea even in linux, despite being against current linux conventions).

For development purposes, there is a hack that allows you to place those app specific files in package folder (for easier maintainance) and U++ takes them from there when started from TheIDE (that is what that environment variable is for).

Mirek

Subject: Re: Core - App.cpp - GetDataFile
Posted by 3togo on Wed, 10 May 2006 02:27:51 GMT
View Forum Message <> Reply to Message

Below is a directory listing of /usr/local/bin. You could find that most of the programs nowaday like crossover, quake and etc place a symbolic link in /usr/local/bin only while keeping the data files within the same folder with their "exe" programs.

Therefore, GetExeDirFile would be a good idea even in linux and is not against current linux conventions.

3togo

[root@localhost Desktop]# cd /usr/local/bin
[root@localhost bin]# ls -l
total 11416
-rwxr-xr-x 1 root root 4072346 Apr 21 03:04 dboxfe*
lrwxrwxrwx 1 root root   35 Apr 17 03:21 et -> /usr/local/games/enemy-territ ory/et*
-rwxr-xr-x 1 root root   402 Apr 28 13:04 et~*
lrwxrwxrwx 1 root root   38 Apr 17 03:21 etded -> /usr/local/games/enemy-ter ritory/etded*
-rwxr-xr-x 1 root root 109686 Apr 28 13:00 etswitch*
lrwxrwxrwx 1 root root   29 Apr 30 11:33 findwine -> /usr/local/winetools/fi ndwine*
-rwxr-xr-x 1 root root   241 Apr 28 17:11 jmware*
-rwxr-xr-x 1 root root   241 Apr 27 03:57 jmware~*
-rwxr-xr-x 1 root root   52 Apr 28 23:35 jupdate*
-rwxr-xr-x 1 root root 339276 May 10 10:11 mj*
-rwxr-xr-x 1 root root   69 Apr 17 03:27 ossfix*

```
lrwxrwxrwx  1 root root      30 Apr 28 08:22 quake4 -> /usr/local/games/quake4/q uake4
lrwxrwxrwx  1 root root      40 Apr 28 08:22 quake4-dedicated -> /usr/local/game
s/quake4/quake4-dedicated
-rwxr-xr-x  1 root root 7117860 May  4 18:53 theide*
lrwxrwxrwx  1 root root      28 Apr 30 11:33 winetools -> /usr/local/winetools/w t0.9jo*
lrwxrwxrwx  1 root root      28 Apr 30 11:33 wt -> /usr/local/winetools/wt0.9jo*
[root@localhost bin]#
```

Subject: Re: Core - App.cpp - GetDataFile
Posted by mirek on Wed, 10 May 2006 05:21:06 GMT
View Forum Message <> Reply to Message

3togo wrote on Tue, 09 May 2006 22:27Below is a directory listing of /usr/local/bin. You could find that most of the programs nowaday like crossover, quake and etc place a symbolic link in /usr/local/bin only while keeping the data files within the same folder with their "exe" programs.

Therefore, GetExeDirFile would be a good idea even in linux and is not against current linux conventions.

3togo

```
[root@localhost Desktop]# cd /usr/local/bin
[root@localhost bin]# ls -l
total 11416
-rwxr-xr-x  1 root root 4072346 Apr 21 03:04 dboxfe*
lrwxrwxrwx  1 root root      35 Apr 17 03:21 et -> /usr/local/games/enemy-territ ory/et*
-rwxr-xr-x  1 root root     402 Apr 28 13:04 et~*
lrwxrwxrwx  1 root root      38 Apr 17 03:21 etded -> /usr/local/games/enemy-ter ritory/etded*
-rwxr-xr-x  1 root root  109686 Apr 28 13:00 etswitch*
lrwxrwxrwx  1 root root      29 Apr 30 11:33 findwine -> /usr/local/winetools/fi ndwine*
-rwxr-xr-x  1 root root     241 Apr 28 17:11 jmware*
-rwxr-xr-x  1 root root     241 Apr 27 03:57 jmware~*
-rwxr-xr-x  1 root root      52 Apr 28 23:35 jupdate*
-rwxr-xr-x  1 root root  339276 May 10 10:11 mj*
-rwxr-xr-x  1 root root      69 Apr 17 03:27 ossfix*
lrwxrwxrwx  1 root root      30 Apr 28 08:22 quake4 -> /usr/local/games/quake4/q uake4
lrwxrwxrwx  1 root root      40 Apr 28 08:22 quake4-dedicated -> /usr/local/game
s/quake4/quake4-dedicated
-rwxr-xr-x  1 root root 7117860 May  4 18:53 theide*
lrwxrwxrwx  1 root root      28 Apr 30 11:33 winetools -> /usr/local/winetools/w t0.9jo*
lrwxrwxrwx  1 root root      28 Apr 30 11:33 wt -> /usr/local/winetools/wt0.9jo*
[root@localhost bin]#
```

Thanks

Well, then the only problem is implementation - that really is quite complex in Linux AFAIK (I am afraid you have to duplicate the PATH searching process and follow that link....)

Mirek

Subject: Re: Core - App.cpp - GetDataFile
Posted by guido on Thu, 11 May 2006 11:24:03 GMT
View Forum Message <> Reply to Message

The POSIX convention is ../share/<appname> relativ to the executable. But as the exe could be symlinked, you need to call realpath() to resolve the symlink:

http://www.opengroup.org/onlinepubs/7990989775/xsh/realpath. html

Both Gnome and KDE have an API for resource location.
In the case of KDE you can add the datadir to the KDEDIRS env variable (in an startup script), to make the app relocatable.
Most Gnome apps are sadly not relocatable at all. Even though Gnome has an API for that, most programmers don't bother and simply hardcode the pathes through the standard autotools mechanism (DATADIR, LOCALEDIR...).
