Subject: patch Gdb_MI parser
Posted by omari on Tue, 24 Mar 2015 16:12:30 GMT
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Hi,
I am playing with gdb MI, with the command "file-list-exec-source-files"
and i found that, gdb split the output, 1024 character per line.
if a line has more than 1024 character, gdb insert an "\n" and continue in the next line.

here a part of the output:

^done,files=[{file="../../../../../src/gcc-4.9.2/libgcc/libgcc2.c",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/libgcc2.c"},{file="../../../../../src/gcc-4.9.2/libgcc/../libgcc/config/i386/shmem-win32.c",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/../libgcc/config/i386/shmem-win32.c"},{file="../../../../../src/gcc-4.9.2/libgcc/libgcc2.c",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/libgcc2.c"},{file="../../../../../src/gcc-4.9.2/libgcc/libgcc2.c",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/libgcc2.c"},{file="../../../../../src/gcc-4.9.2/libgcc/libgcc2.c",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/libgcc2.c"},{file="../../../../../src/gcc-4.9.2/libgcc/config/i386/cygwin.S",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/config/i386/cygwin.S"},{file="../../../../../src/gcc-4.9.2/libgcc/unwind.inc",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/unwind.inc"},{file="./gthr-default.h",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/./gthr-default.h"},{file="../../../../../src/gcc-4.9.2/libgcc/unwind-sjlj.c",fullname="C:\\crossdev\\gccmaster\\build-tdm32\\gcc\\mingw32\\libgcc/../../../../../src/gcc-4.9.2/libgcc/unwind-sjlj.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_xclass.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_xclass.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_version.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_version.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_valid_utf8.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_valid_utf8.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_try_flipped.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_try_flipped.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_study.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_study.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_refcount.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_refcount.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_ord2utf8.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_ord2utf8.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_newline.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_newline.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_maketables.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_maketables.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_info.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_info.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_get.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_get.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_fullinfo.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_fullinfo.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_exec.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\
pcre_exec.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_dfa_exec.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_dfa_exec.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_config.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_config.c"},{file="C:/upp/uppsrc/plugin/pcre/lib/pcre_compile.c",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib\\pcre_compile.c"},{file="C:/upp/uppsrc/plugin/pcre/lib.cpp",fullname="C:\\upp\\uppsrc\\plugin\\pcre\\lib.cpp"},{file="C:/upp/uppsrc/Core/Defs.h",fullname="C:\\

upp\\uppsrc\\Core\\Defs.h"},{file="C:/upp/uppsrc/Core/Cbgen.h",fullname="C:\\upp\\uppsrc\\Core\\Cbgen.h"},{file="C:/upp/uppsrc/Core/Vcont.hpp",fullname="C:\\upp\\uppsrc\\Core\\Vcont.hpp"},{file="C:/upp/uppsrc/Core/Vcont.h",fullname="C:\\upp\\uppsrc\\Core\\Vcont.h"},{file="C:/upp/uppsrc/Core/Value.hpp",fullname="C:\\upp\\uppsrc\\Core\\Value.hpp"},{file="C:/upp/uppsrc/Core/AString.hpp",fullname="C:\\upp\\uppsrc\\Core\\AString.hpp"},{file="C:/upp/uppsrc/Core/Format.h",fullname="C:\\upp\\uppsrc\\Core\\Format.h"},{file="
...
...
...
(gdb)

then i propose this patch:

in function Gdb_MI2::ParseGdb
file Gdb_MI2Gdb.cpp
line 51:

```
String s = TrimBoth(ss.GetLine());
```

to be replaced by:

```
String s;
String str = ss.GetLine();
s = str;
while(str.GetCount() == 1024 && !ss.IsEof())
{
 str = ss.GetLine();
 s << str;
}

s = TrimBoth(s);
```

best regards
omari.

Subject: Re: patch Gdb_MI parser
Posted by mirek on Tue, 24 Mar 2015 16:58:24 GMT
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Thanks, patch applied.

Mirek

Subject: Re: patch Gdb_MI parser
Posted by omari on Wed, 01 Apr 2015 17:27:09 GMT
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Thanks you Mirek,

more investigation, the origine of the 1024 character per line is the AProcess::Read(String&), the internal buffer size of this function is 1024.

then the patch can be reverted, and replaced by this one:

in function
MIValue Gdb_MI2::ReadGdb(bool wait)

replace :

```
dbg->Read(s);
StringStream ss(s);
```

by

```
String sc;
do
{
 s = "";
 dbg->Read(s);
 sc << s;
}while(s.GetCount());

StringStream ss(sc);
```

call dbg-Read() in a loop in order to read all available data.

I think it is interesting to add a function String AProcess::ReadAllAvailable(), or a global function String ReadAvailable(AProcess&).

this patch resolve the issue described in MIValue Gdb_MI2::MICmd(const char *cmdLine) as a comment:

```
// consume previous output from gdb... don't know why sometimes
// is there and gives problems to MI interface. We shall maybe
// parse and store it somewhere
ReadGdb(false);
```

with this patch, the call to ReadGdb(false) in not needed.

Subject: Re: patch Gdb_MI parser
Posted by omari on Thu, 02 Apr 2015 08:13:58 GMT
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discussion continues in another thread : http://
www.ultimatepp.org/forums/index.php?t=msg&goto=44571&amp ;#msg_44571