Subject: Re: Fatal Upp Core memory management (heap/malloc) interventions in AppKit/Cocoa?
Posted by mirek on Mon, 20 Jun 2011 03:58:18 GMT
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daveremba wrote on Sun, 19 June 2011 18:50I encountered a similar problem.
Not a crash, but a leak detected in UPP/heapdbg.cpp
I get "Heap leaks detected!" on exit.

Here is what I found:

a stack trace showed a MacOSX carbon function
from Xft... calling
UPP Core/operator new()!
maybe the order of constructors in UPP
is calling Xft before it is initialized?

Here is a temp fix: in Draw/Font.cpp:
(telling UPP heap debugger to ignore this leak)

```
const CommonFontInfo& Font::Fi() const
{
// add:
 MemoryIgnoreLeaksBlock __;

 if(lastStdFont != AStdFont.AsInt64()) {
  lastFiFont = INT_MIN;
  lastStdFont = AStdFont.AsInt64();
 }
 if(AsInt64() == lastFiFont)
  return lastFontInfo;
// known leak on MacOSX here: getAllCarbonLazyValues2000 calls Core.h op new()
// should not call UPP op new()
// from GetFontInfo() ... XftFontOpenPattern() ... getAllCarbonLazyValues2000() -> new()
 lastFontInfo = GetFontInfo(*this);
 lastFiFont = AsInt64();
 return lastFontInfo;
}
```

A stack trace from gdb is attached to this message.
(stack frames 0-5 are from a temp gets() to force a halt
while gdb is attached to the process)

I haven't tried debugging UPP in UPP yet!

Well, it looks like they do not care about releasing memory for global object allocations... In that case, your fix is absolutely correct. Meantime, we have to hope they always call our new/delete If not, there will have to be implicit USEMALLOC for MacOSX....

Quote:
I think the better fix is to include some Xft header
in Font.cpp after Core.h ?
Core/Core.h:201:inline void *operator new(size_t size) throw(std::bad_alloc) { void *ptr =
UPP::MemoryAlloc(size); return ptr; }

Not quite sure how that is going to help?

Mirek
