
Subject: Re: Newbie Mac PPC shared lib
Posted by [Irene Barg](#) on Thu, 02 Mar 2000 08:00:00 GMT
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To All,

Please ignore my previous post, there wasn't a problem after all. I interpreted the 'watch icon' as meaning wait, so I really didn't try much else. I re-ran the tests, and there is a little hesitation when it forks out to the C external code, but it only lasts a fraction of a second.

My apologies!
--irene

"J.D. Smith" wrote:

>

> Irene Barg wrote:

>>

>> Hello to all,

>>

>> My development environment:

>> Mac G4 450MHz 512MB RAM OS 9

>> IDL 5.2 for Mac

>> CodeWarrior V5 for Mac

>>

>> I'm new to the Macintosh, however, after reading several
>> posts regarding "shared libraries" on this newsgroup, I was
>> able to get my code up and running. Now, I have a question.

>>

>> Our UNIX users use IDL, Interactive Data Language, package
>> from RSI, for interactive analysis and visualization. We have
>> a set of C routines that we have been able to call from IDL
>> using the IDL CALL_EXTERNAL function which loads and calls
>> routines contained in shareable object libraries. My task was
>> to port this C code to the Macintosh environment so that our
>> Mac/IDL users could use it as well.

>>

>> Inside my IDL procedure, I call a C routine with the following:

>>

>> s = CALL_EXTERNAL('calnica.shlb','do_cridcalc',nic,input,crimage)

>>

>> Where:

>> "calnica.shlb" is my PowerPC shared library created with CW.

>> "do_cridcalc" is my entry point name to my shared code.

>> "nic, input, crimage" are pointers to data.

>>

>> I created "shlb" using CW PPC Std C Console stationary. The
>> code works, but, while it's running, I can't do anything else
>> with the Mac. Normally, one processes more than one image at
>> a time, so I have to free up the Mac, but how? This is not
>> a problem on the UNIX platform. I'm not certain if it's an
>> IDL or Mac problem. Any insight you may have will be most
>> appreciated.

>

> How do you do the multiple processing? With multiple instances of IDL running?
> Or is there some other way you "background" the calculation. Is there user
> input required to get the calculations started? Without a multi-CPU machine,
> running the processes concurrently is not any faster, and most likely slightly
> slower, than running them in series, say from a batch file (unless, of course,
> the time required for human interaction can be interleaved -- the strength of
> multi-processing). This technique could be adopted on the Mac (start the batch
> file running and then go to lunch).

>

> If you use multiple IDL sessions, it's definitely a Mac problem -- no preemptive
> multi-tasking support. MacOS X, based on the Mach microkernel and BSD, will
> have robust PMT and protected memory, so, assuming RSI supports it in a timely
> fashion, that will satisfy your Mac user's needs. It's due out at the end of
> the year.

>

> Good Luck,

>

> JD

>

> --

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Subject: Re: Newbie Mac PPC shared lib
Posted by [John-David T. Smith](#) on Thu, 02 Mar 2000 08:00:00 GMT
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