Subject: Re: Redhat Linux 6.0 troubles continue
Posted by Laurent Chardon on Thu, 03 Jun 1999 07:00:00 GMT
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Yes, as an SMP user of IDL for Linux, I am also very frustrated by IDL's current state. Commands such as findfile() no longer work. Redhat 6.0 takes care of numerous security issues in addition to the truly SMP kernel, so there is no going back for us. Does this mean that we can no longer use IDL? I hope that RSI is listening and that the answer is no. This kind of problems really shouldn't happen, specially with what we pay for license maintenance.

Thanks to everyone on this group for providing great support.

Laurent Chardon

PS: remove the NOT_THIS from my address if you want to reply directly.

Bruce L. Gotwols wrote in message <3756C35D.A4D93B7@tesla.jhuapl.edu>...
> Hello all IDL Linux users,
> On May 10th Jeremy Sanders posted a workaround which allows IDL to run
> under the latest version of Linux available from Redhat (6.0). I found
> this workaround to be very useful so I have included it below for any
> latecomers. However, I have just discovered another failure mode. The
> spawn command no longer works. This is very important if you want to
> print anything from within IDL, as well as a myriad of other ways we use
> spawn. To demonstrate the failure, all you have to do is spawn any unix
> command, e.g..
> spawn, 'ls'
> The error messages that come back are:
> tcsh: /usr/i386-glibc20-linux/lib/libcrypt.so.1: no version
> information available (required by tcsh)
>
> tcsh: /usr/i386-glibc20-linux/lib/libc.so.6: no version
> information available (required by tcsh)
>
> tcsh: error in loading shared libraries:
> /usr/i386-glibc20-linux/lib/libc.so.6:
> undefined symbol: _dl_global_scope_end
>
> My interpretation of this failure mode is that the interactive shell I
> am running (tcsh, but with identical failures under bash) is unhappy
> with the old shared libraries that the workaround uses. So I'm damned if
> I do and damned if I don't. Surprisingly, I find that call_external does
> work.
>

> Why so much interest in upgrading to redhat 6.0? The answer is that it
> is the first major release that uses the new Linux 2.2 kernel. This
> kernel, for the first time, routinely supports Symmetric Multi
> Processing (SMP). SMP was available in earlier kernels as a patch, but
> this is the first release where it comes into it's full glory from the
> ground up. We at JHU/APL are deep into using multi processors as a way
> of simultaneously doing data acquisition as well as Quick-Look analysis
> in real time.
>
> I purchased IDL for Linux about one month ago. I was not told until a
> week after the purchase that it had not been recompiled since Redhat
> version 5.1 which is on the order of one year ago! Nor would RSI give
> me a schedule for the next recompile, saying only that they would
> contact their Linux developer about the problem. So apparently they
> don't even have this capability in-house. I am left wondering what is
> the use of paying for an IDL maintenance contract, since RSI is
> obviously doing virtually no maintenance, at least with the Linux
> version.
>
> I don't know if there are enough Linux users out there to bring enough
> pressure to bear on RSI to clean up this problem. If there are, then I
> propose we band together and collect a list of bugs which would be
> submitted to RSI. That way, when they finally do get around to doing
> something, perhaps they will fix some problems that might go unnoticed
> until the next maintenance fix (which might be a year from now!). I will
> volunteer to collect the bug reports, collate them into a readable
> whole, and submit them to RSI as well as to this news group. I suggest
> the deadline for submission be June 15th since after that you'll have
> forgotten all about this message.
>
> To start off the list here are several bugs and deficiencies that I am
> aware of:
>
> 1. Recompile IDL under Redhat 6.0 (and any other vendors versions if
> they are supported). This should fix the fatal bugs discussed below as
> well as the bug introduced by the workaround discussed above.
>
> 2. Provide huge file support (> 2GB). This has been advertised as
> being available under IDL 5.2 for about a year now, but it wasn't until
> I tried to use it that I discovered it is not available on any Intel
> based box (This means both Windows and Linux).
>
> 3. Fix systime() so it once again returns time with a precision greater
> than one second. This affects the suite of time test programs such as
> time_test2 such that they can only record integer number of seconds, and
> therefore their results under Linux are inaccurate.
>
> Cheers, Bruce Gotwols

>
> On 10 May Jeremy Sanders gave a partial workaround:
>> We managed to get IDL to work by installing the compatability >
libraries. I then modified the idl script (the one which runs the >
binary) at the end to read:
>>
>> app=$IDL_DIR/bin/bin.$OS$OSVER$ARCH/$APPLICATION
>> if [-e /lib/ld-2.0.7.so] ; then
>> exec $app $* $APP_ARGS
>> else
>> libdir=/usr/i386-glibc20-linux/lib
>> export LD_LIBRARY_PATH="${libdir}:${LD_LIBRARY_PATH}" exec
>> ${libdir}/ld-2.0.7.so $app $* $APP_ARGS
>> fi
>
>> This seems to work, although we haven't tried running programs with
>> external shared libraries.
>
>
> But on 19 May, G. Hugh Song described a continuing problem:
>> I thought that all the compatibility problem has been solved by users. >
In my case, one problem was solved following Jeremy's patch. But > when
I lauched my application, I got:
>> /usr/local/rsi/idl_5.2/bin/bin.linux/idl: error in loading shared >
libraries
>> /usr/X11R6/lib/libX11.so.6: undefined symbol: __bzero
>
>> So, have you guys solved all the compatibility problem as much as you >
want?
> (The answer obviously is no, as described at the beginnig of this
> message.)
>
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