
Subject: IDLWAVE (Mac) launching IDL as PPC rather than Intel
Posted by [Anthony\[1\]](#) on Fri, 08 Dec 2006 15:16:41 GMT

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I have IDL 6.3 running on an Intel Mac. From the command line, it launches as a native Intel application. But from IDLWAVE it launches as a Power PC (ppc) application, which makes it much slower. (emacs itself is running as an Intel application.)

Any ideas?

Anthony

Subject: Re: IDLWAVE (Mac) launching IDL as PPC rather than Intel
Posted by [henrygroe](#) on Fri, 08 Dec 2006 20:52:06 GMT

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Anthony wrote:

- > I have IDL 6.3 running on an Intel Mac. From the command line, it
- > launches as a native Intel application. But from IDLWAVE it launches
- > as a Power PC (ppc) application, which makes it much slower. (emacs
- > itself is running as an Intel application.)

Kludgey idea:

Remove:

/Applications/rsi/idl/bin/bin.darwin.ppc

and create a soft link from

/Applications/rsi/idl/bin/bin.darwin.ppc

to

/Applications/rsi/idl/bin/bin.darwin.i386

There may be reasons this is a bad idea.

Subject: Re: IDLWAVE (Mac) launching IDL as PPC rather than Intel
Posted by [JD Smith](#) on Fri, 08 Dec 2006 22:25:24 GMT

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On Fri, 08 Dec 2006 07:16:41 -0800, Anthony wrote:

- > I have IDL 6.3 running on an Intel Mac. From the command line, it
- > launches as a native Intel application. But from IDLWAVE it launches as a
- > Power PC (ppc) application, which makes it much slower. (emacs itself is
- > running as an Intel application.)

That's a first (no Intel Mac here). Do you happen to have more than one IDL 6.3 version installed? My guess is that from the terminal you are running one version, and from IDLWAVE another, likely do to differences in the environment (e.g. search path) between them.

Before 6.3b, IDL wasn't Intel native. Try running Emacs from the command line. If you do have more than one IDL version, try print,!VERSION in both to see if they are the same (modulo arch). If that's not it, we'll have to dig deeper.

JD

Subject: Re: IDLWAVE (Mac) launching IDL as PPC rather than Intel
Posted by [Anthony\[1\]](#) on Sat, 09 Dec 2006 00:07:23 GMT

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JD Smith wrote:

> That's a first (no Intel Mac here). Do you happen to have more than
> one IDL 6.3 version installed? My guess is that from the terminal you
> are running one version, and from IDLWAVE another, likely do to
> differences in the environment (e.g. search path) between them.

Okay, I have 6.3 and 6.1 installed, and I've found the problem and a (messy) solution.

IDLWAVE appears to call IDL from the idl_6.1 folder, rather than from \$IDL_DIR or ...rsi/idl, both of which point to idl_6.3. This means that idl_6.1/bin/idl is executed, which assumes that if OS="darwin" then ARCH=".ppc". It then calls \$IDL_DIR/bin/bin.\$OS\$ARCH, i.e., 6.3 PPC version.

My messy solution is to move the 6.1 folder and create a link idl_6.1 -> ... idl_6.3. So when IDLWAVE attempts to call idl_6.1 it actually calls idl_6.3.

Any idea why IDLWAVE should call idl_6.1 rather than the default?

Anthony

Subject: Re: IDLWAVE (Mac) launching IDL as PPC rather than Intel
Posted by [JD Smith](#) on Sat, 09 Dec 2006 00:27:28 GMT

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On Fri, 08 Dec 2006 16:07:23 -0800, Anthony wrote:

> JD Smith wrote:
>> That's a first (no Intel Mac here). Do you happen to have more than one
>> IDL 6.3 version installed? My guess is that from the terminal you are
>> running one version, and from IDLWAVE another, likely do to differences
>> in the environment (e.g. search path) between them.
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> \$IDL_DIR or ...rsi/idl, both of which point to idl_6.3. This means that
> idl_6.1/bin/idl is executed, which assumes that if OS="darwin" then
> ARCH=".ppc". It then calls \$IDL_DIR/bin/bin.\$OS\$ARCH, i.e., 6.3 PPC
> version.

IDLWAVE doesn't specifically call any version of IDL (unless you've configured it that way -- look for 'idlwave-shell-explicit-filename' in your .emacs). It calls the version that is first on the path -- i.e. the version that the shell would find if you typed "idl".

It sounds very much to me like a) you have idl_6.1 first on your search path (possibly just inside of Emacs), and b) you have IDL_DIR pointed to idl_6.3. This sort of works, but only because you get lucky and the 6.1 start script (almost) works with 6.3. Are you certain you don't get this same behavior right in the Terminal typing "idl"? If so, check for explicit symlinks to idl_6.1. It's also possible you have an outdated IDL_DIR explicitly set for Emacs (e.g. via environment.plist), but not the terminal. In Emacs try M-x getenv IDL_DIR, and you might check PATH while there as well.

If you load Emacs from the shell, it should launch the exact same IDL version that you get in the shell typing "idl". Try that to check. If your Emacs is launched from somewhere else (e.g. it's Carbon Emacs loaded from the Dock, etc.), then you need to ensure the pertinent environment is the same between terminal and global environment. Search this group for environment.plist, which is the way to do that. If all else fails, set explicit-filename to point right to rsi/idl/bin/idl.

A recommendation for the future: always redirect everything through a symlink /path/to/rsi/idl, which points to the "current version" directory, e.g. idl_6.3. Never explicitly mention any other path in any way, except perhaps by linking, e.g. idl_6.1 to /path/to/rsi/idl_6.1/bin/idl (so you can run old versions as a test). If you do this, there will never be occasion for IDL versions to get confused with each other.

JD

Subject: Re: IDLWAVE (Mac) launching IDL as PPC rather than Intel
Posted by [Anthony\[1\]](#) on Sat, 09 Dec 2006 00:28:14 GMT
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Anthony wrote:

> Any idea why IDLWAVE should call idl_6.1 rather than the default?

Got it - /usr/local/bin/idl--- were pointing to idl_6.1.

Thanks for the help. All solved!

Anthony
