
Subject: Re: IDL & Memory Usage...

Posted by [Nigel Wade](#) on Wed, 04 Sep 2002 10:44:22 GMT

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Randall Skelton wrote:

> Hi all,

>

> Does anyone know how IDL 5.5a breaks up into smaller processes under

> Linux? When I run top on my machine I see:

>

>

> 2:37pm up 12 days, 4:41, 10 users, load average: 0.16, 0.12, 0.09

> 85 processes: 84 sleeping, 1 running, 0 zombie, 0 stopped

> CPU0 states: 0.0% user, 2.2% system, 0.0% nice, 97.2% idle

> CPU1 states: 0.0% user, 0.0% system, 0.0% nice, 100.0% idle

> Mem: 3089264K av, 2238680K used, 850584K free, 196K shrd, 200332K

> buff

> Swap: 6289320K av, 49024K used, 6240296K free 939340K

> cached

>

> PID USER PRI NI SIZE RSS SHARE STAT %CPU %MEM TIME COMMAND

> 579 rhs 8 0 828M 828M 3912 S 0.0 27.4 74:11 idl

> 583 rhs 9 0 828M 828M 3912 S 0.0 27.4 0:00 idl

> 584 rhs 9 0 828M 828M 3912 S 0.0 27.4 15:46 idl

> 585 rhs 9 0 828M 828M 3912 S 0.0 27.4 0:00 idl

>

>

> I only have one IDL session running, but 4 separate processes appear. It

> also appears that each is consuming 828MB of RAM. Is this an attempt to

> get around the 2.1GB address limit for 32-bit machines? I'll admit this

> is a relatively large calculation but IDL cannot *REALLY* be taking 110%

> of my memory resources ;)

>

> Cheers,

> Randall

I would assume that they are threads rather than real processes.

The way Linux implements threads is rather strange, they are basically individual processes which share a lot of kernel resources and have the same VM (at least I *think* that's the way it's done).

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