Subject: Re: IDL & Memory Usage... Posted by Nigel Wade on Wed, 04 Sep 2002 10:44:22 GMT View Forum Message <> Reply to Message

Randall Skelton wrote:

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> 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
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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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