Subject: Re: IDL_IDLBridge limited to 4?
Posted by Juggernaut on Thu, 04 Nov 2010 19:30:14 GMT

On Nov 4, 12:14 pm, Donald Woodraska <don.woodra...@gmail.com> wrote:
> I've been using the IDL_IDLBridge to run tasks in parallel in the
> background. However, when I increase the number of IDL_IDLBridge
> objects beyond 4, they don't seem to do anything. Although they are
> given tasks, the linux top command doesn't show any increase in CPU
> usage. I've cranked it up from 4 to as many as 14 IDL_IDLBridge
> objects, but the CPU usage doesn't go beyond 400%.
>
> My box has dual quad cores with hyperthreading, so it looks like 16
> CPU cores are available. IDL recognizes all 16 in !CPU, but I can't
> seem to use them.
>
> IDL> help,!cpu,/str
> ** Structure !CPU, 6 tags, length=32, data length=32:
>   HW_VECTOR   LONG   0
>   VECTOR_ENABLE LONG   0
>   HW_NCPU   LONG   16
>   TPOOL_NTHREADS LONG   16
>   TPOOL_MIN_ELTS LONG64   100000
>   TPOOL_MAX_ELTS LONG64   0
>
> I've split my job into 4 pieces and run 4 separate IDL instances with
> 4 bridge objects each on 4 separate terminals. There has to be a
> better way.
>
> Is there some kind of an internal limit in IDL preventing me from
> using more than 4 bridge objects at the same time? Is there a startup
> parameter I need to change? I'm running version 7.0.8 (no DE) on
> Redhat 5.
>
> Thanks!

Are you using the NOWAIT keyword for asynchronous operation?