Subject: Re: Intel iMac IDL performance
Posted by Wolf Schweitzer on Mon, 13 Mar 2006 17:59:00 GMT
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JD Smith wrote:
> This assumes TPOOL_MIN_ELTS=100000. Setting tpool_min_elts with CPU will
> reset this, which will make the size of the vector much smaller, and make
> this somewhat artificial (though I don't doubt a factor of 10, really). I
> guess I should have put a:
>
> cpu,tpool_min_elts=100000
>
> first, to even the playing field.
>
> JD

I did set the vector to 100000 (which rids me of depending on that
assumption with the threadpool minimal elements - setting being constant).

Then I vary TPOOL_MIN_ELTS until I find the fastest speed. I personally
would see no point in recording an artificially slow speed just because
for a given machine / task, the TPOOL_MIN_ELTS is suboptimal. So you'd
first seek the best speed, and record that.

Below my "tweaked" version.

Regards, Wolf.

```
pro jdstest

cpu,/reset
  a=randomu(sd,100L*!CPU.TPOOL_MIN_ELTS)
  t=systime(1) & a=sqrt(a)/(a>0.5) & ri =systime(1)-t

print, 'initial result ', ri, ' @ tpool ', !cpu.tpool_min_elts

bs= double(5)
p = 100
pool=0

for n = 0.,30. do begin

cpu,tpool_min_elts=bs^n
p=100
```

```
for i = 1,32 do begin

  a=randomu(sd,100L *100000)   ;*!CPU.TPOOL_MIN_ELTS)
  t=systime(1) & a=sqrt(a)/(a>0.5) & r =systime(1)-t

if r lt p then begin
  print, ' found new optimum at ',r, ' seconds @ tpool_min_elts ',bs^n
  p = r
  pool=n
end


end

end

print, ' final results ', p, ' @ tpoolminelts ', bs^pool
print, ' performance gain through tweaking tpool variable : new jd test
runs at percentage of ', p/ri * 100., ' %'

end
```
