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Subject: DMGR Stats
From: Jeff Ogden (W163)
To: Andy Goodrich (W114) (seen,deleted)
George Helffrich (W170) (seen,deleted)
John Sanguinetti (W034) (seen,deleted)
Mike Alexander (MTA.) (seen)
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Hi,

I did a few experiments to see what the differences in CPU time used were with and without the DMGR and this is what I came up with:

	Run#1	Run#2	Run#3	Run#4	Run#5	Average
With DMGR:						
MTS CPU time	4.355	4.369	4.351	4.367	4.430	4.374
DMGR CPU time	0.669	0.558	0.627	0.697	0.746	0.659
Total CPU time	5.054	4.927	4.978	5.064	5.176	5.033

Without DMGR:

MTS CPU time	4.608	4.588	4.609	4.646	4.682	4.627
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Thus it seems that we are using between 8% and 9% more CPU time with the disk manager than without. This data was collected early Sunday morning and total disk activity was typically between 50 and 90 operations per second. All times are in seconds and represent the CPU time used to copy *SYSMAC to a previously created temporary file of the correct size twice. The MTS CPU times are just the output from the TDR option. The DMGR CPU time was estimated by running MTA:PRINTCNTS before and after the I/O and taking the total CPU time used by the DMGR together with the total number of disk operations during the period to arrive at the average CPU time per operation. The disk I/O count in the MTS job's job table was also displayed before and after the I/O to determine how much of the total DMGR I/O was the I/O being measured. The file W163:TDISKS is the thing to look at if you want to see what I did.

To copy *SYSMAC to a temp. file twice seems to take about 2056 I/O operations under the disk manager. A single I/O op currently takes from 0.27 to 0.34 ms.

I'll try this again during the week and see what happens. While the figures seem to give a good feel for the amount of CPU time used, we need to figure out some way to measure the throughput with and without the DMGR. Anyone with a bright idea on how to do this please step forward.

-Jeff