

FedCentric Technologies



FedCentric Technologies
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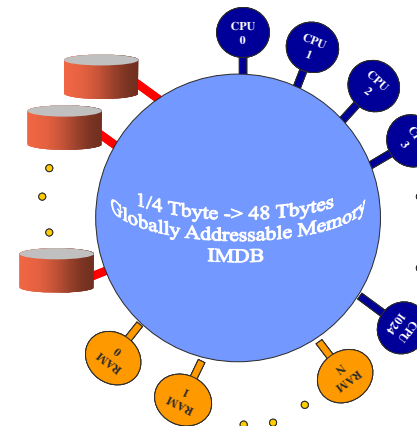
Memory Centric Data Base Acceleration

EXPERIENCE, LEADERSHIP, RESULTS

Phone: (301) 263-0030

What would you
do with an order
of magnitude
increase in
database
performance?

Is your application performance still inadequate after buying the newest generation system, processors, memory and disks, getting the latest data base release and spending man months optimizing disk striping and memory caching routines?



Your application may benefit significantly from FedCentric Technologies Memory Centric Data Base (MCDB) Acceleration approach.

FEDCENTRIC
TECHNOLOGIES

Experience, Leadership, Results

Our mission is to provide customers with the finest products and people to accelerate database performance.

Give us a call to determine how you might benefit from our approach.



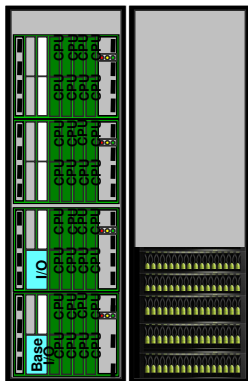
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What is Memory Centric Data Base Acceleration?

USING SYSTEM MEMORY FOR SPEED AND DISKS FOR CAPACITY

FedCentric combines Memory Centric Architecture (MCA) with In Memory Data Base (IMDB) technology to achieve orders of magnitude performance increases. The entire database software and data are stored in system memory thus eliminating delays introduced by disk latencies. In a Memory Centric Architecture, disks provide capacity not speed. Disks are relegated to backup and restore functionality.

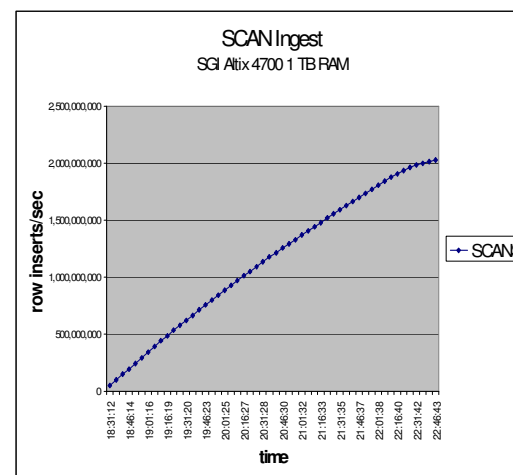


PRODUCTS

FedCentric embeds Oracle TimesTen with SGI Altix Servers to provide the ultimate performance attainment. FedCentric then customizes this MCDB Acceleration solution to blend seamlessly into your application environment.

PERFORMANCE

FedCentric has performed several Proofs of Concept comparing disk-based systems with Memory Centric Architectures. The results are compelling.



SCALABILITY

IMDB solutions have traditionally focused on smaller embedded applications. FedCentric specializes in bringing this technology to the enterprise. This approach will scale from tens of gigabytes to tens of terabytes of information capacity.

EFFICIENCIES

Disk based systems use disk striping algorithms to enhance performance. These striping techniques may require many more disks than is needed for simply storing the data. Floor space and power consumption have become key elements in system deployments. You simply cannot afford to throw more hardware at the problem. MCDB Acceleration can significantly increase performance while simultaneously reducing floor space, power consumption and cooling demands.

Efficiency Comparison

	Disk-based Transaction Benchmark	Disk-based Transaction Benchmark	In-Memory Transaction Benchmark
Processor type, count	SPARC64, 64	Itanium2, 16	Itanium2, 16
Database engine	Oracle	Oracle	TimesTen IMDB
RAM	512 GB	1024 GB	1024 GB
Total storage	64,800 GB	77,184 GB	4,096 GB
Server cost	\$3,982,226	\$1,083,648	\$946,659
Storage cost	\$2,130,176	\$3,357,040	\$135,226
Avg response time	0.131 - 0.598 sec	0.103 - 0.453 sec	0.00486 - 0.01738 sec
Performance	595,702 tpm	1,238,579 tpm	32,183,908 tpm
\$ Price/Performance	\$12.42	\$3.94	\$0.06
KWH Consumption/yr	1,436,747	1,559,165	139,858
Annual power cost	\$181,368	\$196,822	\$17,655
Server ft ³	88.6	51.7	51.4
Storage ft ³	506.3	614.1	1.4
Perf/KW	3,634.5	6,963.6	2,017,223.2
Perf/ft ³	1001.4	1860.2	610,190.8

PARTNERS

FedCentric is an SGI and Oracle partner with years of experience in the MCDB Acceleration marketplace.

FedCentric is pleased to announce the addition of Integrated Computer Concepts Incorporated (ICCI) to our portfolio. ICCI enables us to expand professional services offerings in this area.

Please call us for more information!

