



NovaScale 7000

The new servers
for GCOS 7, Linux®
and Microsoft® Windows®
applications

NovaScale 7125/7285

High-range servers based on dual-core Intel® Itanium® 2 processors, providing advanced partitioning features allowing the simultaneous support of GCOS 7, Microsoft® Windows® and Linux®. Powerful and robust, they constitute the ideal evolution path for medium and large DPS 7000 servers

Innovative architecture, standard processors, mainframe reliability

Designed and developed within the Diane program, the NovaScale 7125 and 7285 servers are based on the FAME (Flexible Architecture for Multiple Environments) architecture and on the dual-core Intel® Itanium® 2 processors. They guarantee the continuity of functioning of GCOS 7 applications (binary compatibility), while facilitating the integration of applications of the open environments.

The NovaScale 7125 and 7285 servers complete the current GCOS 7 offer which includes the Bull DPS 7000/XTA. They provide more power and openness as well as advanced partitioning features.

They offer the reliability, availability and maintainability of the mainframe class. They constitute the ideal evolution path for medium and large DPS 7000 servers.

To execute GCOS 7, Microsoft® Windows® & Linux® in complete security in isolated partitions

The innovative architecture of NovaScale 7125 and 7285 servers enable physical partitioning on a single server:

- Either one GCOS 7 and up to six Microsoft® Windows® 2003 and Linux® (Red Hat or Bull Advanced Server) partitions
- Or up to four GCOS 7 partitions.

In each physical partition the applications execute in a dedicated environment, including notably processors, memory and disks, which guarantees optimal functioning and performance.

In addition, as the partitions are isolated, an incident in one partition does not disturb the functioning of the others. Each GCOS 7 partition thus benefits from a mainframe-class environment.



Architect of an Open World™

GCOS 7 partition models for increased flexibility

The GCOS 7 partition models are characterized by the number and power of the GCOS 7 processors. Offering for GCOS 7 applications a performance of up to 5800 on the GCOS 7 scale, they allow easy adaptation of the configurations to the needs of the user.

Optimized handling of input/output, telecommunications and relational database access

The integration of open world technologies into the NovaScale 7000 servers allows to benefit from a very powerful architecture for input/output and to use standard peripherals. In addition, the NovaScale 7000 servers can be easily integrated in a SAN

(storage architecture network) thanks to their optical fiber links and their administration tools.

NovaScale Master makes administration easier

The NovaScale 7000 servers and the associated partitions are managed by NovaScale Master, a powerful integrated administration platform.

Technical specifications

NovaScale 7125 and 7285

Servers	7125	7285
Number of physical GCOS 7 partitions	1-2	1-4
Number of physical OPEN partitions	0-2	0-6

GCOS 7 PARTITIONS (7045)

Partition models	211	221	231	241	212	222	232	242	252	262	272	273	274
Central sub-system													
Sockets	2	2	2	2	2	2	2	2	2	2	2	4	4
Dual-core Intel® Itanium® 2 Processors	2	2	2	2	2	2	2	2	2	2	2	4	4
Processors for GCOS 7	1	1	1	1	2	2	2	2	2	2	2	3	4
Processors for Windows	3	3	3	3	2	2	2	2	2	2	2	5	4
Memory for GCOS 7 (GB)	1	1	1	1	1	1	1	1	1	1	1	1	1
Memory for Windows (GB)	7-31	7-31	7-31	7-31	7-31	7-31	7-31	7-31	7-31	7-31	7-31	15-63	15-63
SCSI controller ⁽¹⁾	1	1	1	1	1	1	1	1	1	1	1	1	1
System disks	2+1	2+1	2+1	2+1	2+1	2+1	2+1	2+1	2+1	2+1	2+1	2+1	2+1
10/100/1000 Mbps Ethernet controller	1	1	1	1	1	1	1	1	1	1	1	1	1
Free PCI slots	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10	4/10	10	10
Performances													
Weight on GCOS 7 scale	250	430	560	740	460	790	1020	1360	1870	2500	3600	5000	5800

Peripherals

StoreWay FDA 1500 / 2500 / 2800
 EMC CLARiiON CX3 UltraScale series: cX3-20 / 40 / 80
 EMC Symmetrix DMX Series
 STK L700e with STK 9840C drive
 PowerSave 320 FC
 SDLT 320 Rack Mounted
 OpenSave storage solutions
 Connection to VIRTUO

OPEN PARTITIONS

Partition type	5045	5085
Sockets	2/4	2/4/6/8
Dual-core Intel® Itanium® 2 processors	2/4	2/4/6/8
Memory size (GB)	8 - 64	8 - 128
PCI slots ⁽²⁾	5/11	5/11

(1) For internal system disks. (2) One slot is used to connect internal SCSI boot disks.

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Bull – rue Jean Jaurès - 78340 Les Clayes sous Bois – France
 UK: Bull Maxted Road, Hemel Hempstead, Hertfordshire HP2 7DZ
 USA: Bull 300 Concord Road, Billerica, MA 01821