

A new generation of GCOS 7 servers

NovaScale G7x7

The new NovaScale GCOS 7 servers based on quad-core Intel® Xeon® 5500 processors (code name Nehalem-EP) integrate the best of GCOS 7 and Windows® environments within a single platform. Powerful and robust, they provide the ideal evolution path for small and medium GCOS 7 servers.

Innovative architecture, standard processors and mainframe reliability

Designed and developed within the Diane program, the NovaScale G7x7 servers are based on the Extended Twin Architecture and on quad-core Intel® Xeon® 5500 processors. They guarantee the operational continuity of GCOS 7 applications (binary compatibility), while facilitating the integration of open environment applications.

The NovaScale G7x7 servers complete the current GCOS 7 offer which includes the Bull NovaScale 7005 family.

They offer a mainframe-class reliability, availability and maintainability.

They provide the ideal evolution path for small and medium GCOS 7 servers.

Powerful and scalable servers

The NovaScale G7x7 servers consist of a hardware platform built around the latest Intel® microarchitecture, called Nehalem. This architecture is associated with a set of firmware and software components, the V7000 Virtual Machine, which allows the GCOS 7 and Windows® Server 2008 environments to be executed simultaneously.

The GCOS 7 environment as well as the Windows® environment run on dedicated cores, offering extremely flexible operation, optimum performance and mainframe-class security for GCOS 7 applications. In addition, the Windows I/O engine of the NovaScale G7x7 servers enables outstanding throughput and connection of market standard peripherals.

Regarding networking, the NovaScale G7x7 servers support the OSI/DSA and TCP/IP protocols. Furthermore, the NovaScale G7x7 servers can be easily integrated in a SAN (Storage Architecture Network) thanks to their Fibre Channel links.

Seven models to better meet customers' needs

All NovaScale G7x7 models are implemented with one GCOS 7 core and three Windows cores. The models weight depends on the power of the GCOS 7 core. Thanks to a wide range of performance, from 75 to 730 on the GCOS 7 scale, and headroom to sustain growth in databases and open solutions, the NovaScale G7x7 series enables cost-effective and flexible infrastructures that can evolve at the pace best suited to customers' needs.

PRODUCT SPECIFICATIONS



Architect of an Open World™

Bull NovaScale G7x7 – technical specifications

Models	G727	G737	G747	G757	G767	G777	G787
Central subsystem							
Number of GCOS 7 cores	1	1	1	1	1	1	1
Number of Windows cores	3	3	3	3	3	3	3
Shared L2 cache (MB)	4	4	4	4	4	4	4
GCOS 7 memory (GB)	1	1	1	1	1	1	1
Windows memory (GB)	5 – 47	5 – 47	5 – 47	5 – 47	5 – 47	5 – 47	5 – 47
Bull Administration & Maintenance server	1	1	1	1	1	1	1
Free I/O slots	4	4	4	4	4	4	4
Integrated devices							
- 146 GB system disks ⁽¹⁾	2+1+1	2+1+1	2+1+1	2+1+1	2+1+1	2+1+1	2+1+1
- DVD Writer	1	1	1	1	1	1	1
- Dual-port Gigabit Ethernet (copper) Network controllers ⁽²⁾	2	2	2	2	2	2	2
GCOS 7 weight⁽³⁾	75	90	130	190	290	560	730
Number of active terminals⁽⁴⁾ (TDS/IDS2)	300	360	520	760	1160	2240	2920
Upgradeable on-site to model	G747	G747	G757	G767	G777	G787	None

(1) Two system disks are in RAID-1 configuration, whereas the third one is a spare disk and the fourth one is a backup disk delivered aside.

(2) Four embedded Gigabit Ethernet ports: one port is dedicated to Bull Administration & Maintenance Server, whereas the other ones can be used for OSI/DSA and Windows TCP/IP communications.

(3) "GCOS 7 weight" is the power rating on the GCOS 7 scale.

(4) Numbers given above show theoretical limits.