Mellanox Technologies

IBGranite Fabric Verification Suite (IBGFVS)

Rev 1.0.0-beta

IBGranite Fabric Verification Suite Release Notes

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1 Overview

These are the release notes of **IBGranite Fabric Verification Suite (IBGFVS)**, Rev 1.0.0-beta. IBGFVS is part of the IBGranite family of InfiniBand fabric management technologies. For details, please refer to the *IBGranite Fabric Verification Suite User's Guide, Document #2196UG.*

The document includes the following sections:

1.1 Supported Platforms And Operating Systems

Table 1 on page 3 lists all supported platforms and operating systems by IBGFVS on the *Master* Node.

Table 2 on page 4 lists all supported platforms and operating systems by IBGFVS on *Agent* Nodes.

Table 1 - Supported Platforms and Operating Systems on Master Node

Architecture	Operating System	Kernel
X86	Red Hat Enterprise Linux 4.0	default
X86_64 AMD	Red Hat Enterprise Linux AS 4.0	default
Intel E64MT X86_64 AR + MHEL-CFXXX-T Tavor Lion Cub	Red Hat Enterprise Linux AS 4.0	default

Table 2 - Supported Platforms and Operating Systems

Architecture	Operating System	Kernel
X86	Red Hat Enterprise Linux 4.0	2.6.9-5.ELsmp
	Red Hat Enterprise Linux 3.0	Update 4
	SuSE SLES 9.0	2.6.5-7.111.5-smp
	SuSE 9.3 Pro	2.6.11.4-20a-smp
	SuSE 9.3 Pro	2.6.11.11 / 2.6.12 (Kernel.org)
	Fedora Core 3 [1]	2.6.9-1.667smp
AMD64 (Opteron)	Red Hat Enterprise Linux AS 4.0	2.6.9-5.ELsmp
	Red Hat Enterprise Linux AS 3.0	Update 4
	SuSE 9.3 Pro	2.6.11.4-20a-smp
	SuSE 9.3 Pro	2.6.11.11 / 2.6.12 (Kernel.org)
	SuSE SLES 9.0	2.6.5-7.111.19-smp
	Rocks 0.3.3	2.4.21-20.Elsmp
	Fedora Core 3	2.6.9-1.667smp
Intel EM64T [1]	Red Hat Enterprise Linux AS 4.0	2.6.9-5.EL
	Red Hat Enterprise Linux AS 3.0	Update 4
	SuSE 9.3 Pro	2.6.11.4-20a-smp
	SuSE 9.3 Pro	2.6.11.11 / 2.6.12 (Kernel.org)
	SuSE SLES 9.0 RC5	2.6.5-7.111.19-smp
	Fedora Core 3	2.6.9-1.667smp
IA64	Red Hat Enterprise Linux AS 3.0	Update 4
	Red Hat Enterprise Linux AS 4.0	2.6.9-5.EL (compiled with 64 KByte page size)
	Red Hat Enterprise Linux AS 4.0	2.6.9-5.EL (default)
	SuSE SLES 9.0	2.6.5-7.97-default

1. Fedora Core 3 requires compiler gcc version 3.4.3 or later.

2 Changes and New Features

This is the first release.

3 Known Issues And Limitations

Known issues and limitations of IBGFVS Rev 1.0.0-beta are described in the following table.

Table 3 - IBGranite Known Issues And Limitations

Issue/Limitation Description	Impact
IPoIB performance checks are not performed	IPoIB Performance limitation checks will be implemented in the official IBG-FVS 1.0.0 release.
Driver version verification is performed only for OpenIB driver	The Assets management step does not verify the driver version except for OpenIB. Verification of the version for all drivers will be implemented in the official IBGFVS 1.0.0 release.
Display by OpenSM of direct route to faulty nodes is missing the last port	This will be fixed in the official IBGFVS 1.0.0 release.
Only Subnet Manager verified by IBGFVS is OpenSM	Therefore OpenSM must be running as the Master Subnet Manager in the fabric during IBGFVS verification. Support for any SM will be implemented in the official IBGFVS 1.0.0 release.
ULPs run time is dependent on number of nodes	As the verification of the ULPs on all fabric nodes is dependent on the number of nodes, thus it impacts IBGranite run time. Rules of the thumb for run time: IPoIB: num-of-nodes*1sec MPI: num-of-nodes*20sec
MPI test must run on machines of the same architecture	The MPI test cannot run on a cluster of mixed architecture (e.g., on a cluster with 32- and 64-bit machines). Future versions of IBGFVS will check and report this limitation as a warning.

4 Major Bug Fixes

None. This is the first release.