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ibutils2 - InfiniBand Diagnostic Utilities Release Notes

Rev 2.1.1-0.42

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1 Overview

The ibutils2 package Rev 2.1.1-0.42 provides diagnostic InfiniBand network tools. The package is a re-implementation of the ibutils package and it is created to improve performance and scalability.

1.1 Supported Platforms and Operating Systems

The following are the supported OSs in ibutils2 Rev 2.1.1-0.42:

Table 1 - Supported Platforms and Operating Systems

Operating System	Platform
RHEL 6.4	x86_64
SLES11 SP3	x86_64

2 Main Features in This Release

ibutils2 Rev 2.1.1-0.42 provides the following new features:

- FDR/FDR10 support

3 Change Log History

3.1 New Features in Rev 2.1.1-0.42 Compared to ibutils/ibdiagnet

Table 2 - New Features, Changes and Fixes in v2.1.1-0.42

Category	Description
Performance	Increased performance by at least 10x more time compared to ibutils/ibdiagnet
Scalability	Improved scalability on large fabrics
User Interface	Minimized the error summary to a single one printed on the screen
	Added a detailed error information to the log file
	Added a progress bar for each consuming operation
	Added a readable name for switch ports (in counters / error reports) instead of their port GUIDs
Device information	Enabled the collection of the device's information (e.g. firmware version) of available nodes
ibdiagnet	Added a plugin interface to the new ibdiagnet. This package includes the cable diagnostic plugin which scans the fabric and extract basic information regarding each QSFP cable from its eeprom. This plugin creates the following cables information: ibdiagnet2.cables For a detailed description for all plugins, run " <code>/opt/bin/ibdiagnet --deep_help</code> ".
BER test	Added BER test

4 Known Issues

The following is a list of general limitations and known issues of the various components of this ibutils2 release.

Table 3 - Known Issues

Index	Issue	Description	Workaround
1.	MC groups	MC groups display in the routing check stage is currently not supported	N/A
2.	SL2VL routing checks	SL2VL routing checks are currently not supported	N/A
3.	IPoIB checks	IPoIB checks are currently not supported	N/A
4.	Link state	When some of the links in the fabric are in an INIT state, a query to performance counters may take a long time.	N/A
5.	ibdiagpath	ibdiagpath is currently unavailable in ibutils2 package	N/A