

BPX Slot Errors

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Introduction

This document describes the basic categories of slot errors on the Cisco BPX and provides an approach to resolve the errors within each category.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Error Categories

There are two basic categories of slot errors on the BPX:

- Errors for shared buses
- Errors for point-to-point links

Errors for Shared Buses

- Poll A Bus Parity Errors
- Poll B Bus Parity Errors
- Bad Grant Errors
- CK-192 Errors

Errors for Point-to-Point Links

- Standby PRBS Errors
- Invalid Rx Port Errors
- TX BIP-16 Errors
- RX BIP-16 Errors
- Serial Interface Unit Phase Errors
- B-Frame Parity Errors
- Rx FIFO Sync Errors

Error Resolution

Error resolution within each category is similar. Many of the slot errors occur with shared resources. If the Broadband Controller Card (BCC) or the bus has a problem, all the cards in the shelf can indicate the same problem. If only one card indicates a problem, that card is likely the card with the failure.

Point-to-point errors are more difficult to isolate because the paths are dedicated, unique to each connection. The paths consist of:

- Card that transmits
- Backplane from this card to the BCC
- BCC with the crosspoint switch
- Backplane to the card that receives
- Card that receives

Through the careful swap of cards, you can isolate the problem to the card with the failure. Most of the cards collect the slot errors with a 100-millisecond task. This collection limits the maximum rate of any error to 100 during any of the 10-second poll periods that the system software uses. In order to enable the software collection, issue the **on2 9** command and the **on2 10** command. In order to enable an alarm on slot error conditions, issue the **on2 2** command. In some software releases, a bug causes the double count of each error, so the maximum rate is 200 within 10 seconds.

Related Information

- [Cisco WAN Switching Solutions – Cisco Documentation](#)
- [Guide to New Names and Colors for WAN Switching Products](#)
- [Downloads – WAN Switching Software \(registered customers only\)](#)
- [Technical Support & Documentation – Cisco Systems](#)

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