

Nucleus SPAN

Spanning Tree Implementation

Description:

Nucleus SPAN is a portable implementation of the Spanning Tree specification: ISO/IEC 10038 ANSI IEEE Std 802.1D, First Edition 1993-07-08. It is comprised of 3 header files, 5 source files and 1 porting file. It requires the following capabilities from the target system:

- Timer tick of 10 milliseconds or less
- Interface transmit capability
- Interface receive capability
- Ability to set 802.1d port states

Spanning Tree Technology:

Whenever two or more LAN bridges or switches are attached to a local area network, the possibility exists that more than one bridge/switch could connect the same segments. This could result in endless loops of packet traffic on the network. The Spanning Tree Algorithm is a method used to sense the structure of the network and prevent multiple paths between network segments. Nucleus SPAN fully meets specifications.

A typical implementation of Nucleus SPAN on an IDT 3051 requires approximately 6Kbytes of code space and 1Kbyte of data space. Size depends on the specific user environment and processor choice. Example port code is included with the source. All products have been developed using RFC standards. All products have a complete set of documentation and installation guides. Technical support, via telephone and email, and maintenance options are available.

Features:

- Prevents duplicate paths in your network using our embedded implementation of Spanning Tree
- Direct implementation of 802.1d from IEEE specification
- Very small (6Kbytes MIPS RISC)
- Requires minimal system resources

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