COMPRO

FEATURES

- Linux Operating System

- Access Library for Memory Mapping

- Standard Reflective Memory®

- Network Access to Each Nodes Control Registers

- SRAM Broadcast to Ensure All Nodes are Updated

- Software Support Service

BENEFITS

- No Driver to Write

- Easy to Install and Maintain

- Flexible Programming Model

- Windows NT4/2000/XP® Availability
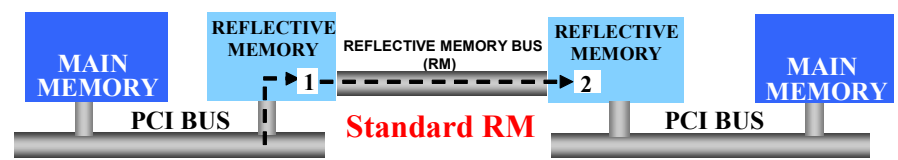
PCI-RMS II Software (Linux)

Overview

The PCI-RMS II Software for Linux® is a software support package offered by Compro. The PCI-RMS Node License package provides a driver and an Access Library.

Reflective Memory Space

PCI-RMS II supports from 32 MB up to one GB of physical memory space.

Standard Reflective Memory is an SRAM buffer located on the physical PCI-RMS circuit card. Data written into this buffer is also reflected to the Standard Reflective Memory address space on remote nodes. Standard Reflective Memory is very flexible and easy to use.

Writes into the Reflected Area are Transmitted to Other Nodes/Reflected Areas

Standard Reflective Memory

PCI-RMS Library

Typically, a Linux device driver is required when controlling PCI devices, and writing the driver is a time intensive task. This Compro product provides a driver and an Access Library to ease the programmers' use of PCI Reflective Memory, eliminating the need to write a custom device driver.

With the Access Library, the mechanics of accessing PCI-RMS is simplified by providing high and low level RMS access functions.

The Access Library supports Memory Mapped mode of operation. Memory Mapped mode lets an application map PCI-RMS memory into its virtual address space. Since kernel calls are not required to access memory, latency is very low.

Functions are provided to transfer data from the local processor's memory to the PCI-RMS or from PCI-RMS to a local processor's memory. This mode provides the highest throughput for moving blocks of data from one memory space to another.

Summary

The PCI-RMS software support is extensive and focused on the needs of the user's operation: performance options for the user and tools are provided to make installation and integration a snap.

Compro also makes available for purchase several levels of hardware and software support to meet your long term logistics needs.

Support for Windows NT4/2000/XP is also available. This set of tools combined with the PCI-RMS hardware make Real-Time Clustering a reality.

Prerequisites

- Linux Operating System
- PCI Capable Model PCI9035 or PCI9036 Type 5 Boards
- Minimum 10 MB Free Disk Space