

Fabric Interconnect Networking Software (FIN-S)

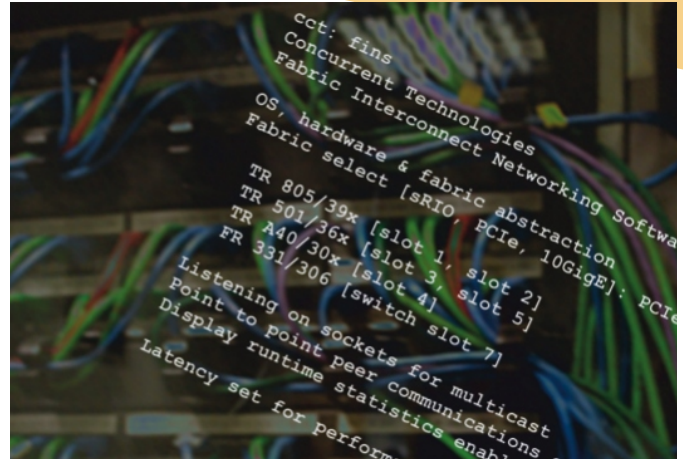
OVERVIEW

Concurrent Technologies Fabric Interconnect Networking Software (FIN-S) provides a rich software ecosystem allowing applications on multiple processor boards to communicate efficiently with each other over supported bus interconnect fabrics, enabling development of high performance embedded computing (HPEC) systems. FIN-S provides a variety of communication mechanisms to address the needs of various embedded applications. Support for the widely accepted IP socket interface is provided, enabling portability and ease of use at application level. A high

HIGHLIGHTS

Fabric Interconnect Networking Software (FIN-S)

- Multiple application level communication interfaces:
 - IP Socket Based Communication interface
 - Direct Inter-Process Communication interface
- Available on range of Concurrent Technologies boards utilizing Intel® processors:
 - commercial and industrial
 - ruggedized air cooled
 - ruggedized conduction-cooled
- Available on range of system architectures:
 - VPX™
 - VXS™
 - AMC
- Support for the latest interconnect fabrics:
 - PCI Express® (PCIe)
 - Serial RapidIO® (SRIIO)
 - 10 Gigabit Ethernet (10GigE)
- Contact your local sales office for latest fabrics supported



performance, low latency message based direct communication library is included, enabling direct zero copy application level communication between boards. This provides the additional benefits of having the same application programming interfaces across multiple operating systems and multiple supported fabrics. High performance computing applications can easily be implemented in the embedded domain. FIN-S supports various system architectures including VPX™, VXS™ and AMC along with their associated interconnect fabrics.

Operating Systems Supported

- Linux®, Windows® and VxWorks®
- Contact your local sales office for latest operating system support

Boards Supported

- Concurrent Technologies offer single board computers supporting:
 - Intel® Core™ i7 processors
 - Intel® Core™ 2 Duo™ processors
 - Intel® Atom™ processors
- Contact your local sales office for the latest boards available

Fabric Interconnect Networking Software (FIN-S)

- multiple application level communication interfaces:
 - IP Socket based communication interface
 - Direct Inter-Process Communication (Direct IPC) interface
- operating system, hardware and fabric abstraction insulating application from technology change
- available on various Concurrent Technologies boards utilizing Intel® processors:
 - commercial and industrial
 - ruggedized air cooled
 - ruggedized conduction-cooled
- available on various system architectures namely:
 - VPX™
 - VXS™
 - AMC
- support for the latest interconnect fabrics:
 - PCI Express® (PCIe)
 - Serial RapidIO® (SRIIO)
 - 10 Gigabit Ethernet (10GigE)
- contact your local sales office for latest fabrics supported
- ability to get runtime statistics of the system

IP Socket Based Communication Interface

- Ethernet interface emulation over supported fabric
- communication based on standard socket library API
- true point to point communication between communicating nodes
- use of standard off the shelf network applications over supported fabric
- support for standard IP features, including multicast

Direct Inter-Process Communication Interface

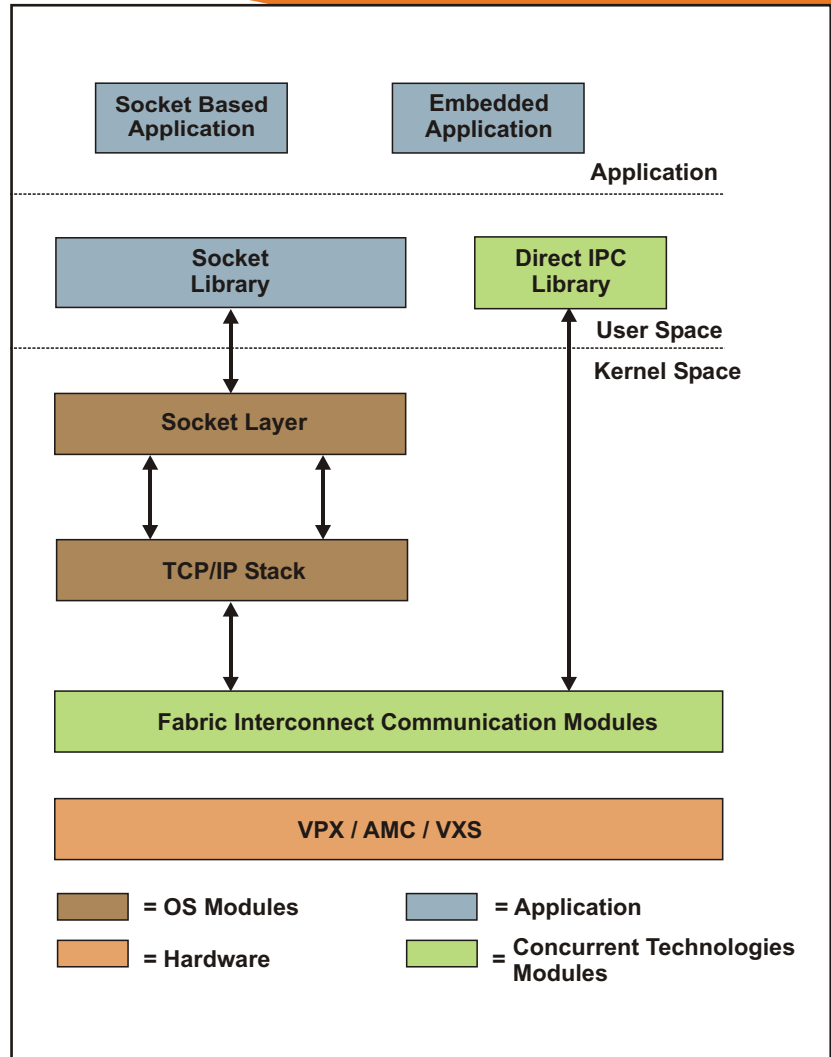
- direct zero copy messaging interface
- true point to point communication between communicating nodes
- high performance, low latency interface

Operating Systems Supported

- Linux®, Windows® and VxWorks® (not all features and communication interfaces are supported on all listed operating systems)
- contact your local sales office for latest operating system support

Boards Supported

- Concurrent Technologies offer single board computers supporting:
 - Intel® Core™ i7 processors
 - Intel® Core™ 2 Duo™ processors
 - Intel® Atom™ processors
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ORDERING INFORMATION

Order Number Product Description (Software)

SW FNS/ofa-mc Fabric Interconnect Networking Software (FIN-S)

where "ofa": o = OS type, f = Fabric type, a = system Architecture type

where "mc" = media code

For all supported options please contact your local sales office