



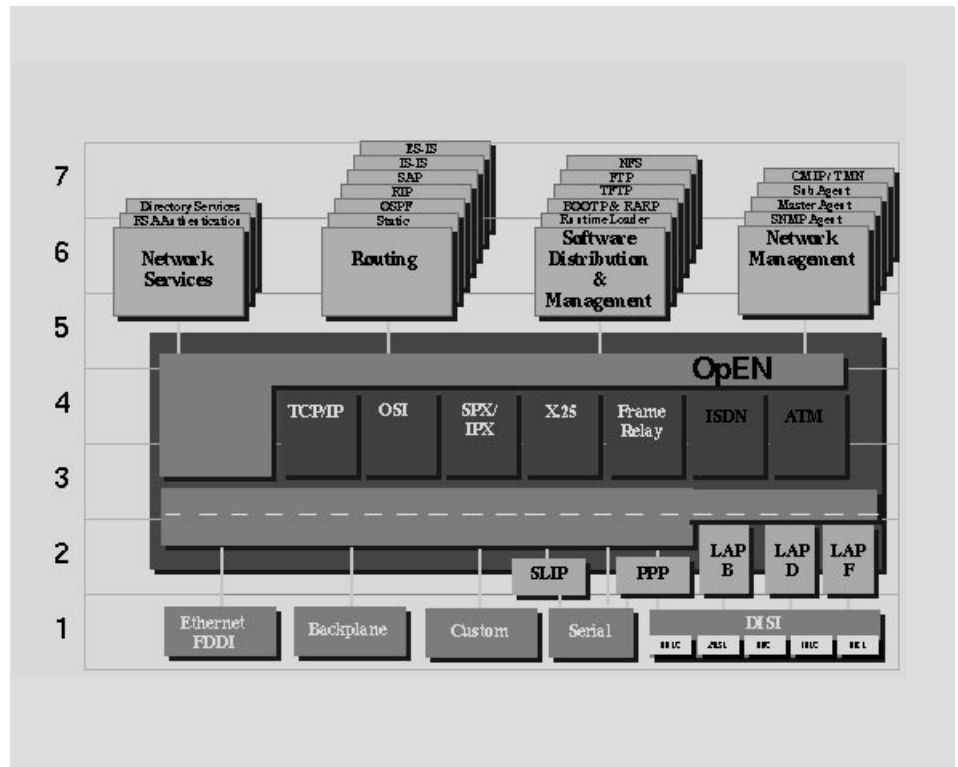
# OpEN\* (STREAMS) Multi-Protocol Platform

- Multi-Protocol Support
- Standard UNIX Device Driver Support
- PPP, SLIP and Ethernet Drivers
- Industry Standard Network Interface Support
- SNMP With MIB Compiler
- Optimized "Zero-Copy" TCP/IP
- Re-Entrant, Extensible, Multi-User Shell

OpEN\* is the only product enabling the expedited development of multi-protocol networked embedded applications. To this end, OpEN includes facilities that reduce by an order of magnitude the time and cost required to integrate network applications, protocols and device drivers into embedded systems.

OpEN addresses the requirements of all three aspects of networked systems development: applications, protocols and drivers. Applications development benefits OpEN's two industry standard, protocol-independent application programming interfaces: the Berkeley UNIX "socket" library and the newer, more advanced System V UNIX Transport Library Interface (TLI). OpEN greatly eases the burden of implementing network protocols through its compliance with the UNIX and Windows NT STREAMS specification. Those developing or porting device drivers also have access to STREAMS' companion standard, (DLPI), which specifies the mechanism by which STREAMS-based device drivers and protocols communicate.

OpEN is layered on top of the pSOSystem/960 real-time operating system. Consequently, OpEN developers may take advantage of all pSOSystem features, including integrated C and C++ support, source code and system level debugging, tools for the creation of distributed and multiprocessor systems and turnkey support of i960® processor evaluation and VME boards.



### Advanced Networking

The pSOSystem Internet protocol bundle (pNA+\*) includes zero-copy TCP/IP accessed through the industry standard socket programming interface. pSOSystem Internet protocols are medium independent — they do not pre-suppose a connection to any specific transport mechanism (i.e., FDDI and Ethernet), increasing their flexibility in embedded systems applications.

For embedded applications integrated into client/server computing environments, pSOSystem offers a complete selection of widely used facilities including FTP and TFTP, RPC/XDR, NFS client and server, Telnet and Shell.

SNMP enables distributed management of networked pSOSystem applications and interfaces. Most often associated with networking equipment and computer peripherals, SNMP represents a high-level, general purpose solution for incorporating monitoring and control facilities into embedded applications.

HOST SYSTEMS SUPPORTED:  
IBM-compatible PCs; Sun SPARCstations; IBM RS/6000 workstations; HP 9000 series 700 workstations

PROCESSORS SUPPORTED:  
i960 Processor Family

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