

TCP/IP Communications Option for C EXECUTIVE



- Standard TCP/IP Protocols
- Based on Official Net II Distribution
- ARP, UDP, ICMP and SLIP Also Supported
- Socket Interface Provided
- Ethernet and SLIP Serial Drivers Included
- Full Source Code Included

CE-TCP provides TCP/IP support for C EXECUTIVE* applications. The software was derived from the official NET II distribution of TCP/IP code. A new Socket Interface was developed by JMI to allow user programs access to the socket system calls. An Operating System interface was also developed specifically for C EXECUTIVE. This layer provides the linkage between TCP/IP and the C EXECUTIVE system calls and device drivers.

CE-TCP can be added as a modular extension to existing C EXECUTIVE applications. A simple entry in the existing Device Configuration Table is made for the TCP/IP protocol driver and also for

each physical device driver. Multiple devices can be configured on the same CPU, including both Ethernet and multiple serial lines. Loopback is also supported.

CE-TCP is highly portable. Porting to a new architecture requires at least a serial driver (a slightly modified version of a standard C EXECUTIVE serial device driver) or an Ethernet driver. All other code is machine-independent.

Device drivers are provided for the Western Digital 8003/8013 Ethernet adapter and the INS 8250 DUART (COM1, COM2 on PCs). In the future, additional protocols and features will be qualified and more device drivers will be developed. All device drivers are written in C and closely follow the architecture of UNIX device drivers.

HOST SYSTEMS SUPPORTED:
Any host system can be used for development.

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