

Socket Library Include Files

This chapter describes the socket library include files. It lists the structures and macro definitions included in each header file.

Overview

This chapter lists the include files used with the API socket library. These files define structures, macros, and constants referenced by the socket library and should be included during the compilation of any application programs that call socket library functions.

Include File Summary

Socket library include files are installed on the local system as members of a partitioned data set. Include this data set in the SYSLIB DD concatenation when application programs are compiled. The data set name is determined during installation (default name T01TCP.H unless changed by the local system programmer). This table summarizes the contents of each include file:

Table 4-1 Include File Summary

INCLUDE FILE	PDS MEMBER	STRUCTURE DECLARATIONS	MACRO DEFINITIONS	OTHER DEFINITIONS
acs.h	ACS			
cdefs.h	CDEFS		_CONCAT _PA _STRING	ANSI C Keywords
errno.h	ERRNO		GET_ERRNO SET_ERRNO	Socket errno values
if.h	IF	ifnet ifaddr ifreq ifconf	IF_QFULL IF_DROP IF_ENQUEUE IF_PREPEND IF_DEQUEUE	
if_arp	IF#ARP	arp_hdr arpreq		
if_ether	IF#ETHER	ether_header ether_arp	ETHER_MAP_IP_MULTIC AST	

Table 4-1 Include File Summary (Continued)

INCLUDE FILE	PDS MEMBER	STRUCTURE DECLARATIONS	MACRO DEFINITIONS	OTHER DEFINITIONS
in.h	IN	in_addr sockaddr_in ip_mreq	IN_CLASSA IN_CLASSB IN_CLASSC IN_CLASSD IN_MULTICAST IN_EXPERIMENTAL IN_BADCLASS htonl htons ntohl ntohs	Protocol defines Well-known port numbers IP options Important IP addresses Function prototypes
inet.h	INET			Includes in.h
iocom.h	IOCCOM		IOC_VOID IOC_OUT IOC_IN IOC_INOUT IOC_DIRMASK	
ioctl.h	IOCTL		SIOCADDRT SIOCDELRT OSIOCGIFADDR SIOCGIFADDR OSIOCGIFDSTADDR SIOCGIFDSTADDR SIOCGIFFLAGS OSIOCGIFBRDADDR SIOCGIFBRDADDR SIOCGIFCONF OSIOCGIFNETMASK SIOCGIFNETMASK SIOCGIFMETRIC SIOCGIFNUM SIOCGIFHWADDR SIOCGIFMTU	
ip.h	IP	ip ip_timestamp		Type of service values Precedence values IP options values Security values Internet implementation values

Table 4-1 **Include File Summary (Continued)**

INCLUDE FILE	PDS MEMBER	STRUCTURE DECLARATIONS	MACRO DEFINITIONS	OTHER DEFINITIONS
netdb.h	NETDB	hostent netent servent protoent		Error return codes Function prototypes
param.h	PARAM		setbit clrbit isset isclr howmany roundup powerof2 MIN MAX	
serrno.h	SERRNO			includes errno.h
sockcfg.h	SOCKCFG	cfuns s0skcfg	SET_CNFG_ERR SET_APICNFG_ERR	Configuration parameters Configuration error codes
socket.h	SOCKET	linger sockaddr sockproto msghdr clientid sstat	bcopy bzero bcmp	Socket types Socket options Address families Protocol families
sockio.h	SOCKIO			includes ioctl.h
sockvar.h	SOCKVAR	arb sb tpi sdebug errtbl socket	spending sstate SOISREADABLE TPLGEN SAVE_ERR SAVE_EXIT SAVE_CMPL_EXIT	
syslog.h	SYSLOG			Priority values/names Option flag values Facility names
systime.h	SYSTIME	timeval timezone itemerval	timerisset timercmp timerclear	
tcp.h.	TCP			TCP_NODELAY TCP_MAXSEG TCP_LINGERTIME

Table 4-1 Include File Summary (Continued)

INCLUDE FILE	PDS MEMBER	STRUCTURE DECLARATIONS	MACRO DEFINITIONS	OTHER DEFINITIONS
time.h	TIME	tm	difftime	Time values
types.h	TYPES		FD_SET FD_CLR FD_ISSET FD_ZERO	standard C type defines
uio.h	UIO	iovec uio		
unistd.h	UNISTD			STDIN_FILENO STDOUT_FILENO STDERR_FILENO