

# APPENDIX U: RESERVED VARIABLE NAMES

This appendix lists variable names that are reserved internally by LS-DYNA.

## LS-DYNA Functions:

ACCM	ELHIST	SFORCE
ACCX	FIELD	SHF
ACCY	FM	SPDP
ACCZ	FORCOS	STEP
AKISPL	FORSIN	STEPL
ARYVAL	FX	TEMP
AX	FY	THETA
AY	FZ	TM
AZ	GFORCE	TX
BEAM	HAVSIN	TY
BISTOP	IF	TZ
BUSH	IMPACT	VARVAL
CHEBY	JOINT	VFORCE
CUBSPL	JPRIM	VM
CURVE	MOTION	VR
CVCV	NFORCE	VTORQ
CX	PHI	VX
CY	PINVAL	VY
CZ	PITCH	VZ
DIF	POLY	WDTM
DIF1	POUVAL	WDTX
DM	PSI	WDTY
DMRB	PTCV	WDTZ
DX	RCFORC	WM
DXRB	ROLL	WX
DY	RX	WY
DYRB	RY	WZ
DZ	RZ	YAW
DZRB	SENSOR	

## Types:

char	float	MatrixNxM (N, M = 1, 2, 3, ...)
cstring	generic	
double	int	pointer

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VectorN (N = 1, 2, 3, ...)

## Constants:

DTOR	NULL	RTOD
MODE	PI	

## System:

abort()	inv()	rx()
argc	isalnum()	ry()
argv[]	isalpha()	rz()
atof()	isascii()	SEEK_CUR
atoi()	iscntrl()	SEEK_END
become_daemon()	isdefined()	SEEK_SET
ceil()	isdigit()	setdebug()
CharArray()	isgraph()	setdefinedstring()
clearerr()	islower()	sizeof()
cross()	isprint()	sleep()
DataCopy()	ispunct()	sprint()
DataCopyTo()	isspace()	sprintf()
die()	isupper()	stderr
dovariablesubstitution()	isxdigit()	stdin
EOR	length()	stdout
exit()	logoutput()	strcasecmp()
fclose()	malloc()	strcat()
fdprintf()	memcpy()	strcmp()
feof()	memmove()	strcpy()
ferror()	memset()	strdup()
fgetc()	New()	strdupf()
fgets()	NewArray()	string
FILE	notify()	strlen()
floor()	out()	strncasecmp()
fopen()	print()	strncat()
fprintf()	printf()	strncmp()
fputs()	PrintGlobals()	strncpy()
fread()	printsp()	strrchr()
free()	putenv()	strtok()
fseek()	ReadFileField()	tr()
fwrite()	remove()	unlink()
getdefinedstring()	rewind()	whatis()
getenv()	rot()	

## Error Handling:

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clearerrno()	EIO	ENOTDIR
E2BIG	EISCONN	ENOTEMPTY
EACCES	EISDIR	ENOTSOCK
EADDRINUSE	ELOOP	ENOTSUP
EADDRNOTAVAIL	EMFILE	ENOTTY
EAFNOSUPPORT	EMLINK	ENXIO
EAGAIN	EMSGSIZE	EOK
EALREADY	EMULTIHOP	EOPNOTSUPP
EBADF	ENAMETOOLONG	EOVERFLOW
EBADMSG	ENETDOWN	EPERM
EBUSY	ENETRESET	EPIPE
ECANCELED	ENETUNREACH	EPROTO
ECHILD	ENFILE	EPROTONOSUPPORT
ECONNABORTED	ENOADDRESS	EPROTOTYPE
ECONNRESET	ENOBUFS	ERANGE
EDEADLK	ENODATA	EROFS
EDESTADDRREQ	ENODEV	ESPIPE
EDOM	ENOENT	ESTALE
EDQUOT	ENOEXEC	ETIME
EEXIST	ENOLCK	ETXTBSY
EFAULT	ENOLINK	EWOULD_BLOCK
EFBIG	ENOMEM	EXDEV
EHOSTNOTFOUND	ENOMSG	geterror()
EHOSTUNREACH	ENOPROTOOPT	geterrstr()
EIDRM	ENOSPC	perror()
EILSEQ	ENOSR	seterror()
EINPROGRESS	ENOSTR	strerror()
EINTR	ENOSYS	sys_err()
EINVAL	ENOTCONN	

### Regular Expressions:

chomp()	gsub()	search()
compilepattern()	research()	subst()

### Binary File Library:

access()	lseek()	O_TRUNC
bufferopen()	MAX_FD	O_WRONLY
close()	MSG_PEEK	open()
F_OK	O_APPEND	R_OK
fileclear()	O_CREAT	read()
filestrerror()	O_EXCL	readline()
ftruncate()	O_RDONLY	readlinetest()
linediscipline()	O_RDWR	stat

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truncate()	write()
W_OK	X_OK

## Processes/Signals:

chdir()	PROC_TERMINALOUT	SIGQUIT
chmod()	rename()	SIGSEGV
ctime()	setfiletimes()	SIGSTOP
execute()	SIG_DFL	SIGSYS
fgetpid()	SIG_IGN	SIGTRAP
getcwd()	SIGABRT	SIGTSTP
getpid()	SIGALRM	SIGTTIN
kill()	SIGBUS	SIGTTOU
mkdir()	SIGCHLD	SIGURG
PROC_BYLINE	SIGCONT	SIGUSR1
PROC_MONITOR	SIGFPE	SIGUSR2
PROC_NOCONSOLE	SIGHUP	SIGWINCH
PROC_NOWAIT	SIGILL	system()
PROC_PIPEIN	SIGINT	time()
PROC_PIPEOUT	SIGIO	touch()
PROC_REDIR	SIGKILL	wait()
PROC_REDIRIN	signal()	which()
PROC_TERMINAL	SIGPIPE	
PROC_TERMINALIN	SIGPWR	

## Sockets (probably not enabled):

accept()	hostent	select()
closemonitor()	ipsocket()	socket_blocking()
drain()	isset()	socket_reuseaddr()
fd_set	localaddr()	tcpconnect()
fdset()	localport()	tcpserver()
fdunset()	monitor()	tcpsocket()
fdzero()	readtest()	timeval
gethostbyname()	remoteaddr()	
gethostname()	remoteport()	

## XDR Routines:

xdr_buf	xdr_status	xdrgetstat()
xdr_bytes	xdr_writeargs	xdrgetstatus()
xdr_data	xdrfree()	xdrlinkdata()
xdr_data1	xdrgetbytes()	xdrlinkgetbytes()
xdr_float	xdrgetdata()	xdrlinkgetdata()
xdr_int	xdrgetfloat()	xdrlinkgetfloat()
xdr_readargs	xdrgetint()	xdrlinkgetint()

xdrlinkgetstat()	xdrlinkrecv()	xdrputint()
xdrlinkgetstatus()	xdrlinksend()	xdrsave()
xdrlinkputbytes()	xdrputbytes()	xdrsend()
xdrlinkputfloat()	xdrputdata()	
xdrlinkputint()	xdrputfloat()	

## Remote Functions:

clientloop()	outputtolink()
currentlink;	raccess()
ftp()	rcopyfile()
ftpchdir()	remote_exec
ftpdebug()	rexecute()
ftpfilesize()	rfstat()
ftpget()	ropen()
ftplist()	rremove()
ftpmkdir()	rrename()
ftpmode()	rstat()
ftpmodtime()	rsystem()
ftpput()	unlink()
ftppwd()	serverloop()
ftpquit()	telnet()
ftpreply()	telnetdebug()
ftprmdir	telnetkill()
ftpsetcounter()	telnettimeout()
ftptimeout()	
ftpunlink()	
LINK_COMMAND	
LINK_STDERR	
LINK_STDOUT	
linkaccept()	
linkbegin()	
linkclose()	
linkcommand()	
linkcommandf()	
linkend()	
linkinfo()	
linkinput()	
linkopen()	
linkoutput()	
linkoutputhandler()	
linkread()	
linkstderr()	
linkstdout()	
linkwrite()	

