

# PCBoard Programming Language

## Reference Guide

(Extracted from Power PPL 2.0 HLP File)

Thanks to By Francis Gastellu, developer os Power PPL, that included the entire reference in Power PPL HLP

PPL Reference Index

### Compiler Options

There are two options for the compiler :

#### 1 - Array Dimension Checking:

This option allow the compiler to check for mistakes when using the statement REDIM. for example :

```
DIM TABLE(5,5,5)
...
REDIM TABLE,10,10
```

This will generate an error unless Array Dimension Checking has been disabled.

#### 2 - User Variable Generation

This allow the PPE to generate the user variables when starting... disable this option if you don't want to have the work done... Usually, there is no need to change anything here... both options may be checked unless you have reasons to changed that.

## ASCII Table

### The ASCII code

American Standard Code for Information Interchange

www.theasciicode.com.ar

ASCII control characters			ASCII printable characters									Extended ASCII characters											
DEC	HEX	Simbolo ASCII	DEC	HEX	Simbolo	DEC	HEX	Simbolo	DEC	HEX	Simbolo	DEC	HEX	Simbolo	DEC	HEX	Simbolo	DEC	HEX	Simbolo	DEC	HEX	Simbolo
00	00h	NULL (carácter nulo)	32	20h	espacio	64	40h	@	96	60h	`	128	80h	Ç	160	A0h	á	192	C0h	Ł	224	E0h	Ó
01	01h	SOH (inicio encabezado)	33	21h	!	65	41h	A	97	61h	a	129	81h	ü	161	A1h	í	193	C1h	ł	225	E1h	ô
02	02h	STX (inicio texto)	34	22h	"	66	42h	B	98	62h	b	130	82h	é	162	A2h	ó	194	C2h	Ť	226	E2h	õ
03	03h	ETX (fin de texto)	35	23h	#	67	43h	C	99	63h	c	131	83h	â	163	A3h	ú	195	C3h	Ŧ	227	E3h	ö
04	04h	EOT (fin transmisión)	36	24h	\$	68	44h	D	100	64h	d	132	84h	ä	164	A4h	ñ	196	C4h	—	228	E4h	ø
05	05h	ENQ (enquiry)	37	25h	%	69	45h	E	101	65h	e	133	85h	à	165	A5h	Ñ	197	C5h	+	229	E5h	ö
06	06h	ACK (acknowledgement)	38	26h	&	70	46h	F	102	66h	f	134	86h	á	166	A6h	ª	198	C6h	ä	230	E6h	µ
07	07h	BEL (timbre)	39	27h	'	71	47h	G	103	67h	g	135	87h	ç	167	A7h	º	199	C7h	Ä	231	E7h	þ
08	08h	BS (retroceso)	40	28h	(	72	48h	H	104	68h	h	136	88h	ê	168	A8h	¿	200	C8h	Ĳ	232	E8h	ß
09	09h	HT (tab horizontal)	41	29h	)	73	49h	I	105	69h	i	137	89h	ë	169	A9h	®	201	C9h	ƒ	233	E9h	ù
10	0Ah	LF (salto de linea)	42	2Ah	*	74	4Ah	J	106	6Ah	j	138	8Ah	è	170	AAh	¬	202	CAh	ƒ	234	EAh	ú
11	0Bh	VT (tab vertical)	43	2Bh	+	75	4Bh	K	107	6Bh	k	139	8Bh	ï	171	ABh	½	203	CBh	ƒ	235	EBh	û
12	0Ch	FF (form feed)	44	2Ch	,	76	4Ch	L	108	6Ch	l	140	8Ch	î	172	ACH	¼	204	CCh	ƒ	236	ECh	ý
13	0Dh	CR (retorno de carro)	45	2Dh	-	77	4Dh	M	109	6Dh	m	141	8Dh	ï	173	ADh	⅓	205	CDh	=	237	EDh	ÿ
14	0Eh	SO (shift Out)	46	2Eh	.	78	4Eh	N	110	6Eh	n	142	8Eh	Ä	174	A Eh	«	206	C Eh	≡	238	E Eh	ÿ
15	0Fh	SI (shift In)	47	2Fh	/	79	4Fh	O	111	6Fh	o	143	8Fh	Å	175	AFh	»	207	CFh	□	239	EFh	ÿ
16	10h	DLE (data link escape)	48	30h	0	80	50h	P	112	70h	p	144	90h	Ê	176	B0h	⋮	208	D0h	ø	240	F0h	±
17	11h	DC1 (device control 1)	49	31h	1	81	51h	Q	113	71h	q	145	91h	æ	177	B1h	⋮	209	D1h	Ð	241	F1h	±
18	12h	DC2 (device control 2)	50	32h	2	82	52h	R	114	72h	r	146	92h	Æ	178	B2h	⋮	210	D2h	Ê	242	F2h	±
19	13h	DC3 (device control 3)	51	33h	3	83	53h	S	115	73h	s	147	93h	ø	179	B3h	⋮	211	D3h	Ë	243	F3h	±
20	14h	DC4 (device control 4)	52	34h	4	84	54h	T	116	74h	t	148	94h	ò	180	B4h	⋮	212	D4h	È	244	F4h	±
21	15h	NAK (negative acknowle.)	53	35h	5	85	55h	U	117	75h	u	149	95h	ò	181	B5h	⋮	213	D5h	Ì	245	F5h	±
22	16h	SYN (synchronous idle)	54	36h	6	86	56h	V	118	76h	v	150	96h	ù	182	B6h	⋮	214	D6h	Í	246	F6h	±
23	17h	ETB (end of trans. block)	55	37h	7	87	57h	W	119	77h	w	151	97h	ù	183	B7h	⋮	215	D7h	Î	247	F7h	±
24	18h	CAN (cancel)	56	38h	8	88	58h	X	120	78h	x	152	98h	ÿ	184	B8h	©	216	D8h	Ï	248	F8h	±
25	19h	EM (end of medium)	57	39h	9	89	59h	Y	121	79h	y	153	99h	Ö	185	B9h	⋮	217	D9h	Ĵ	249	F9h	±
26	1Ah	SUB (substitute)	58	3Ah	:	90	5Ah	Z	122	7Ah	z	154	9Ah	Û	186	BAh	⋮	218	DAh	⋮	250	FAh	±
27	1Bh	ESC (escape)	59	3Bh	;	91	5Bh	[	123	7Bh	{	155	9Bh	ø	187	BBh	⋮	219	DBh	⋮	251	FBh	±
28	1Ch	FS (file separator)	60	3Ch	<	92	5Ch	\	124	7Ch		156	9Ch	£	188	BCb	⋮	220	DCb	⋮	252	FCh	±
29	1Dh	GS (group separator)	61	3Dh	=	93	5Dh	]	125	7Dh	}	157	9Dh	Ø	189	BDh	¢	221	DDh	⋮	253	FDh	±
30	1Eh	RS (record separator)	62	3Eh	>	94	5Eh	^	126	7Eh	~	158	9Eh	×	190	BEh	¥	222	DEh	⋮	254	FEh	±
31	1Fh	US (unit separator)	63	3Fh	?	95	5Fh	-				159	9Fh	f	191	BFh	ŀ	223	DFh	⋮	255	FFh	±

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## **Functions & Statements - A**

Abort  
Abs  
Account  
ActMsgNum  
AdjBytes  
AdjDBytes  
AdjTBytes  
AdjTFiles  
AdjTime  
Alias  
And  
AnsiOn  
AnsiPos  
Append  
Asc

## **Function & Statements - B**

B2w  
Backup  
BitClear  
BitSet  
Blt  
Break  
Broadcast  
Bye

## **Function & Statements - C**

Call  
CallID  
CallNum  
Carrier  
CcType  
CdCheckOff  
CdCheckOn  
CdOn  
Chat  
ChatStat  
Chr  
CloseCap  
ClrEol  
Cls  
Color  
ConfAlias  
ConfExp  
ConfFlag  
ConfMw  
ConfReg  
ConfSel  
ConfSys  
ConfUnFlag

Continue  
Copy  
Crc32  
CurColor  
CurConf  
CurSec  
CurUser

### **Function & Statements - D**

Date  
Day  
DbgLevel  
Dec  
Declare  
DefAns  
DefColor  
Delay  
Delete  
DelUser  
Dir  
DispFile  
DispStr  
DispText  
DNext  
DoIntr  
Dow  
Download  
DriveSpace  
DtrOff  
DtrOn

### **Function & Statements - E**

End  
ErrorCorrect  
EvtTimeAdj  
Exist

### **Function & Statements - F**

FAppend  
FClose  
FCloseAll  
FCreate  
FDefIn  
FDefOut  
FDGet  
FDPut  
FDPutLn  
FDPutPad  
FDRead  
FDWrite  
Ferr  
FFlush

FGet  
FileInf  
Flag  
FlagCnt  
FmtCC  
FmtReal  
FNext  
FOpen  
ForNext  
Forward  
FPut  
FPutLn  
FPutPad  
FRead  
FReAltUser  
FreshLine  
FRewind  
FSeek  
Function  
FWrite

### **Function & Statements - G**

GetAltUser  
GetEnv  
GetToken  
GetUser  
GetX  
GetY  
Go  
Goodbye  
GoSub  
GoTo  
GrafMode

### **Function & Statements - H**

Hangup  
HelpPath  
HiConfNum  
HiMsgNum  
Hour

### **Function & Statements - I**

I2s  
IfThen  
InBytes  
Inc  
Inkey  
Input  
InputCC  
InputDate  
InputInt  
InputMoney

InputStr  
InputText  
InputTime  
InputYN  
Instr  
IsBitSet  
IsNonStop

### **Function & Statements - J**

Join

### **Function & Statements - K**

KbdBufSize  
KbdChkOff  
KbdChkOn  
KbdFile  
KbdFileUsed  
KbdFlush  
KbdString  
KbdStuff  
KeyFlush  
KInkey

### **Function & Statements - L**

Lang  
LangExt  
LastAns  
LastIn  
Left  
Len  
Let  
Log  
LoggedOn  
LoMsgNum  
Loop  
Lower  
Lprinted  
Ltrim

### **Function & Statements - M**

Mask\_Alnum  
Mask\_Alpha  
Mask\_Ascii  
Mask\_File  
Mask\_Num  
Mask\_Path  
Mask\_Pwd  
MaxNode  
MdmFlush  
MegaNum  
Message  
MGetByte

Mid  
Min  
MInkey  
MinLeft  
MinOn  
Mixed  
MkAddr  
MkDate  
Modem  
Month  
More  
MouseReg  
MPrint  
MPrintLn  
MsgToFile

### **Function & Statements - N**

NewLine  
NewLines  
NoChar  
Not

### **Function & Statements - O**

OnLocal  
OpenCap  
Operators  
OpText  
Or  
OutBytes

### **Function & Statements - P**

PageOff  
PageOn  
PageStat  
PCBAccount  
PcbAccStat  
PcbDat  
PcbMac  
PcbNode  
PeekB  
PeekDW  
PeekW  
PokeB  
PokeDW  
PokeW  
Pop  
PPEName  
PPEPath  
PPLBufSize  
PRFound  
Print  
PrintLn



Procedure  
PromptStr  
Psa  
Push  
PutAltUser  
PutUser

### **Function & Statements - Q**

Quest  
Quit  
QwkLimits

### **Function & Statements - R**

Random  
RdUnet  
RdUsys  
ReadLine  
RecordUsage  
ReDim  
RegAh  
RegAl  
RegAx  
RegBh  
RegBl  
RegBx  
RegCf  
RegCh  
RegCl  
RegCx  
RegDh  
RegDi  
RegDI  
RegDs  
RegDx  
RegEs  
RegF  
RegSi  
Rename  
Replace  
ReplaceStr  
ResetDisp  
RestScrn  
Return  
Right  
Rtrim

### **Function & Statements - S**

S2i  
SaveScrn  
ScanMsgHdr  
ScrFile  
ScrText

SearchFind  
SearchInit  
SearchStop  
Sec  
Select Case  
SendModem  
SetEnv  
SetLmr  
Shell  
ShowOff  
ShowOn  
ShowStat  
SIPath  
Sort  
Sound  
Space  
SPrint  
SPrintLn  
StackAbort  
StackErr  
StackLeft  
StartDisp  
Stop  
String  
Strip  
StripAtx  
StripStr  
Syntax  
SysopSec

### **Function & Statements - T**

TempPath  
Time  
TimeAP  
To  
ToDDate  
TokCount  
Tokenize  
TokenStr  
ToType  
TPACGet  
TPACPut  
TPACRead  
TPACWrite  
TPAGet  
TPAPut  
TPARead  
TPAWrite  
Trim

### **Function & Statements - U**

Un\_City

Un\_Name  
Un\_Oper  
Un\_Stat  
Upper  
UserAlias  
U\_Bdl  
U\_BdlDay  
U\_Bul  
U\_Fdl  
U\_Ful  
U\_InConf  
U\_LDate  
U\_LDir  
U\_Lmr  
U\_Logons  
U\_LTime  
U\_MsgRd  
U\_MsgWr  
U\_Name  
U\_PwdHist  
U\_PwdLc  
U\_PwdTc  
U\_RecNum  
U\_Stat  
U\_TimeOn

#### **Function & Statements - V**

ValCC  
ValDate  
ValTime  
VarAddr  
VarOff  
VarSeg  
Ver

#### **Function & Statements - W**

Wait  
WaitFor  
While  
WrUnet  
WrUsys  
WrUsysDoor

#### **Function & Statements - X**

Xor

#### **Function & Statements - Y**

Year  
YesChar

## **PPL SOURCE SYNTAX**

Each line of a PPL source file may contain none, one, some or all of the following sections:

[KEYWORD ][EXPR|VAR][,EXPR|VAR][;|'] [COMMENT TEXT]

KEYWORD - A PPL statement used to accomplish some task.  
EXPR - A PPL expression which may contain VARs, CONSTs, and/or FUNCs.  
VAR - A PPL variable with optional array subscript.  
CONST - A PPL constant.  
FUNC - A PPL function that returns a value.  
; - Used to start a comment. Ignored by the compiler.  
' - Used to start a comment. Ignored by the compiler.  
\* - Used to start a comment if first character of the line.  
COMMENT - Comment text following the ; or '. Ignored by the compiler.

If a line is blank or contains only a comment, it is skipped. If it contains a KEYWORD, that line is compiled into a tokenized format. If it doesn't contain a KEYWORD but some argument, it is assumed to be an assignment statement (LET).

A double quote (") may be embedded within a string constant to tell the compiler that a single literal quote is desired. In other words, "THIS""IS""A""TEST" would evaluate to THIS"IS"A"TEST after the leading and trailing quotes are removed and the double quotes were folded to single quotes.

Labels and variable names may now include the following characters in addition to A-Z, 0-9, and the \_ (underscore) character: \$ (dollar sign), @ (commercial at), # (pound sign), ¢ (cents), £ (british pound), ¥ (japanese yen)

A \ (backslash) character as the last character on a line (before any comments) will now allow continuing a logical line from one to the next physical line

A : (colon) character may be used to separate multiple logical lines on a single physical line

## **DATA TYPES**

### **SYNTAX**

TYPE var[(dim[,dim[,dim]])][,var...]

PPL utilizes the following data types:

### **BOOLEAN**

unsigned character (1 byte) 0 = FALSE, non-0 = TRUE

### **DATE**

unsigned integer (2 bytes) PCBoard julian date (count of days since 1/1/1900)

### **DDATE**

Signed long integer for julian date. DDATE is for use with DBase date fields. It holds a long integer for julian dates. When coerced to string type it is in the format CCYYMMDD or 19940527

#### INTEGER / SDWORD / LONG

signed long integer (4 bytes) Range: -2,147,483,648 -> +2,147,483,647

#### MONEY

signed long integer (4 bytes) Range: -\$21,474,836.48 -> +\$21,474,836.47

#### STRING

far character pointer (4 bytes) NULL is an empty string non-NULL points to a string of some length less than or equal to 256

#### TIME

signed long integer (4 bytes) Count of seconds since midnight

#### BIGSTR

Allows up to 2048 characters per big string (up from 256 for STRING variables) May include CHR(0) characters in the middle of the big string (unlike STRING variables which may not)

#### EDATE

Julian date in earth date format Deals with dates formatted YYMM.DD Range: Same as DATE

#### REAL / FLOAT

4-byte floating point number Range: +/-3.4E-38 - +/-3.4E+38 (7-digit precision)

#### DREAL / DOUBLE

8-byte floating point number Range: +/-1.7E-308 - +/-1.7E+308 (15-digit precision)

#### UNSIGNED / DWORD / UDWORD

4-byte unsigned integer Range: 0 - 4,294,967,295

#### BYTE / UBYTE

1-byte unsigned integer Range: 0 - 255

#### WORD / UWORD

2-byte unsigned integer Range: 0 - 65,535

## SBYTE / SHORT

1-byte signed integer Range: -128 - 127

## SWORD / INT

2-byte signed integer Range: -32,768 - 32,767

## NOTES

---

Any type may be assigned to any other type. This is the simplest way to accomplish type conversion. BOOLEAN, DATE, INTEGER, MONEY and TIME are all integer types and may be assigned to each other. Assignment from a larger data type to a smaller data type automatically converts the data to a format suitable for the smaller data type. Conversion to and from STRINGS is dependent on the other data type. DATES are imported/exported as "MM-DD-YY". TIMES are imported/exported as "HH:MM:SS". MONEYs are imported/exported as "#.##" without embedded dollar signs or commas, and using as many characters as needed to the left of the decimal point. All variables must be declared before use.

## **CONSTANTS**

PPL allows user defined constants in the following formats:

\$#.##

A MONEY constant (dollar sign followed by optional dollars followed by decimal point followed by cents; # = 0-9)

□□□  
#h

An INTEGER hexadecimal constant (# = 0-9 & A-F)

□□□  
#d

An INTEGER decimal constant (# = 0-9)

□□□  
#o

An INTEGER octal constant (# = 0-7)

□□□  
#b

An INTEGER binary constant (# = 0-1)

□□□  
#

An INTEGER constant (# = 0-9)

□□□  
"X"

A STRING constant (X = any displayable text)

□□□

@X##

An INTEGER @X constant (# = 0-9 & A-F)

## **PREDEFINED CONSTANTS**

PPL predefines the following constants:

AUTO = 2000h

Parameter passed to INPUTSTR and PROMPTSTR statements (automatically press enter after 10 seconds of no user input)

BELL = 800h

Parameter passed to DISPTXT statement (sound a bell when prompt displayed)

□□□□

CRC\_FILE - CRC\_STR

These constants were added to avoid confusion when telling the function CRC32 what it is taking the CRC of. CRC\_FILE tells CRC32 to calculate the CRC of the file contained within the string argument. CRC\_STR tells CRC32 to calculate the CRC of the string argument itself. CRC\_FILE has a value of 1 (TRUE) CRC\_STR has a value of 0 (FALSE)

CUR\_USER = 0

Parameter passed to CURUSER()

DEFS = 0

Parameter passed to various statements for default values

ECHODOTS = 1h

Parameter passed to INPUTSTR and PROMPTSTR statements (echo dots instead of user input)

ERASELINE = 20h

Parameter passed to INPUTSTR and PROMPTSTR statements (erase the current line when user presses enter)

FALSE = 0

BOOLEAN FALSE value

FCL = 2

Value passed to STARTDISP to force line counting display

FIELDLEN = 2h

Parameter passed to INPUTSTR and PROMPTSTR statements (displays parenthesis to show input field width if ANSI enabled) □□□□

FNS = 1

Value passed to STARTDISP to force non-stop display

F\_EXP = 2h

Expired subscription access allowed flag for CONFFLAG and CONFUNFLAG

F\_MW = 10h

Mail waiting flag for CONFFLAG and CONFUNFLAG

F\_REG = 1h

Registered access allowed flag for CONFFLAG and CONFUNFLAG

F\_SEL = 4h

Conference selected flag for CONFFLAG and CONFUNFLAG

F\_SYS = 8h

Conference SysOp access flag for CONFFLAG and CONFUNFLAG

GRAPH = 1h

Parameter passed to DISPFILE statement to search for graphics specific files

GUIDE = 4h

Parameter passed to INPUTSTR and PROMPTSTR statements (displays parenthesis above current line if FIELDLEN used and ANSI not enabled) □□□□

HIGHASCII = 1000h

Parameter passed to INPUTSTR and PROMPTSTR statements (allow high ascii characters, regardless of current valid character set, if disable high ascii filter set to yes)

LANG = 4h

Parameter passed to DISPFILE statement to search for language specific files

LFAFTER = 100h



Parameter passed to INPUTSTR, PROMPTSTR and DISPTXT statements (send an extra line feed after user presses enter)

LFBEFORE = 80h

Parameter passed to INPUTSTR, PROMPTSTR and DISPTXT statements (send an extra line feed before prompt display)

LOGIT = 8000h

Parameter passed to DISPTXT statement (log text to callers log)

LOGITLEFT = 10000h

Parameter passed to DISPTXT statement (log text to callers log, forcing left justification)

NC = 0

Value passed to STARTDISP to not change display mode

NEWLINE = 40h

Parameter passed to INPUTSTR, PROMPTSTR and DISPTXT statements (send a line feed after user presses enter)

NOCLEAR = 400h

Parameter passed to INPUTSTR and PROMPTSTR statements (don't clear field at first keypress regardless of ANSI)

NO\_USER = -1

Parameter passed to CURUSER()

O\_RD = 0

Parameter passed to FCREATE/FOPEN/FAPPEND to open a file in read only mode

O\_RW = 2

Parameter passed to FCREATE/FOPEN/FAPPEND to open a file in read and write mode

O\_WR = 1

Parameter passed to FCREATE/FOPEN/FAPPEND to open a file in write only mode

SEC = 2h

Parameter passed to DISPFILE statement to search for security specific files

STACKED = 10h

Parameter passed to INPUTSTR and PROMPTSTR statements (allow semi-colons and spaces in addition to valid character set passed)

S\_DB = 3h

Parameter passed to FCREATE/FOPEN/FAPPEND to deny read and write (both) access from other processes

S\_DN = 0h

Parameter passed to FCREATE/FOPEN/FAPPEND to allow read and write (deny none) access from other processes

S\_DR = 1h

Parameter passed to FCREATE/FOPEN/FAPPEND to deny read access from other processes

S\_DW = 2h

Parameter passed to FCREATE/FOPEN/FAPPEND to deny write access from other processes

TRUE = 1

BOOLEAN TRUE value

UPCASE = 8h

Parameter passed to INPUTSTR and PROMPTSTR statements (force user input to upper case)

WORDWRAP = 200h

Parameter passed to INPUTSTR and PROMPTSTR statements (if user hits end of line, save the text at the end of the line for future use)

YESNO = 4000h

Parameter passed to INPUTSTR and PROMPTSTR statements (Only allow international yes/no responses)

NO\_USER = -1

Return by GetUser - variables are currently undefined

CUR\_USER = 0

Return by GetUser - User variables are for the current user  
See also : Predefined Variables

## **PREDEFINED VARIABLES**

PPL predefines the following variables for user record access:

BOOLEAN U\_CLS

Clear screen between messages status

BOOLEAN U\_DEF79

79 column message editor default

BOOLEAN U\_EXPERT

Users current expert status

BOOLEAN U\_FSE

Users full screen editor default

BOOLEAN U\_FSEP

Prompt for full screen editor status

BOOLEAN U\_LONGHDR

6 line vs 4 line message header status

BOOLEAN U\_SCROLL

Scroll multi-screen message status

DATE U\_EXPDATE

The users subscription expiration date

DATE U\_PWDEXP

The date that the users password expires and must be changed

INTEGER U\_EXPSEC

The users expired security level

INTEGER U\_PAGELEN

The users page length

INTEGER U\_SEC

The users security level

STK\_LIMIT

This constant was added so the PPL programmer could determine how close they are getting to the stack limit when using recursion.

STRING U\_ADDR(5)

The users address information (if the SysOp has enabled address recording)

Subscript 0 = First street line

1 = Second street line

2 = City

3 = State

4 = Zip

5 = Country

STRING U\_ALIAS

The users alias (if the SysOp has enabled alias use)

STRING U\_BDPHONE

The users business/data phone number

STRING U\_CITY

The users city/state information

STRING U\_CMNT1

The users comment field

STRING U\_CMNT2

The SysOps comment field

STRING U\_HVPHONE

The users home/voice phone number

STRING U\_NOTES(4)

Notes about the user (if the SysOp has enabled the note capability)

Subscripts 0-4 hold lines 1-5

STRING U\_PWD

The users password

STRING U\_TRANS

The users default transfer protocol

## STRING U\_VER

The users verification string (if the SysOp has enabled user verification)

See also : Predefined Constants

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## EXPRESSION OPERATORS

PPL allows the following operators to be used in expressions (lvalue and rvalue are simply the values to the left and right, respectively, of binary operators):

- ( - Start sub-expression (also allows [ to be used)
- ) - End sub-expression (also allows ] to be used)
- ^ - Raise lvalue to the power of rvalue (also allows \*\* to be used)
- \*
- / - Divide lvalue by rvalue
- % - Remainder of lvalue divided by rvalue
- +
- - Subtract rvalue from lvalue
- = - Is lvalue equal to rvalue (also allows ==)
- <> - Is lvalue not equal to rvalue (also allows != and ><)
- < - Is lvalue less than rvalue
- <= - Is lvalue less than or equal to rvalue (also allows =<)
- > - Is lvalue greater than rvalue
- >= - Is lvalue greater than or equal to rvalue (also allows =>)
- ! - Logical not of rvalue
- & - Logical and of lvalue with rvalue (also allows &&)
- | - Logical or of lvalue with rvalue (also allows ||)

## ABORT() : BOOLEAN

Returns a flag indicating whether or not the user aborted the display of data via ^K/^X or answering no to a MORE? Prompt

## ABS(var:integer) : INTEGER

Returns the absolute value of "var"

## AND(var1:integer,var2:integer) : INTEGER

Returns the bitwise and of two integer expressions

See also : Or Xor Not

## ANSION() : BOOLEAN

Returns TRUE if the user has ANSI capabilities

See also : OnLocal GrafMode

**ASC(var:string) : INTEGER**

Returns the ASCII value (0-255) of the first character of "var"  
See also : Chr

**B2W(var1:integer,var2:integer) : INTEGER**

Returns a word built from two byte sized values by the formula:  
(var1\*0100h+var2)

**CALLID() : STRING**

Returns the caller ID string

**CALLNUM() : INTEGER**

Returns the caller number of the current user.

**CARRIER() : INTEGER**

Returns the carrier speed as reported by the modem to PCBoard  
See also : ErrCorrect

**CCTYPE(var:string) : STRING**

Returns the issuer of credit card number "var"  
See also : FmtCC InputCC ValCC

**CDON() : BOOLEAN**

Returns TRUE if the carrier detect signal is on  
See also : CdCheckOn CdCheckOff

**CHATSTAT() : BOOLEAN**

Return the current users chat availability status (TRUE means available, FALSE means unavailable).  
See also : PageStat

**CHR(var:integer) : BIGSTR**

Returns a single character long string of the character represented by ASCII code "var" (0-255)  
See also : Asc

**CONFREG(confNum:integer) : BOOLEAN**

**CONFEXP**  
Returns TRUE if users registered flag is set, FALSE otherwise  
See also : ConfSel ConfSys ConfMw CurConf ConfExp CurConf  
ConfFlag ConfUnFlag Join ConfAlias LastIn

**CONFEXP(confNum: integer)**

Returns TRUE if users expired flag is set, FALSE otherwise

NOTE:

ConfReg() = FALSE & CONFEXP = TRUE, user locked out  
ConfReg() = TRUE & CONFEXP = TRUE, user reg & exp

See also : ConfSel ConfSys ConfMw CurConf CurConf  
ConfFlag ConfUnFlag Join ConfAlias LastIn  
ConfReg

**CONFSEL(confNum: integer) : BOOLEAN**

Returns TRUE if user has selected the conference, FALSE otherwise

See also : ConfSys ConfMwCurConf ConfExp CurConf  
ConfFlag ConfUnFlag Join ConfAlias LastIn  
ConfReg

**CONFSYS(confNum: integer) : BOOLEAN**

Returns TRUE if user has conference SysOp access, FALSE otherwise

See also : ConfSel ConfMwCurConf ConfExp CurConf  
ConfFlag ConfUnFlag Join ConfAlias LastIn  
ConfReg

**CONFMW(confNum: integer) : BOOLEAN**

Returns TRUE if user has mail waiting in conference "confnum", FALSE otherwise

See also : ConfSel ConfSys CurConf ConfExp CurConf  
ConfFlag ConfUnFlag Join ConfAlias LastIn  
ConfReg

**CURCOLOR() : INTEGER**

Returns the current color (0-255) in use by the ANSI driver

See also : DefColor

**CURCONF() : INTEGER**

Returns the current conference number

See also : ConfSel ConfSys ConfMw ConfExp CurConf  
ConfFlag ConfUnFlag Join ConfAlias LastIn  
ConfReg

**CURSEC() :INTEGER**

Returns the users current security level

See also : SysopSec

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**DATE() :DATE**

Returns todays date

See also : Time

**DAY(datevar:date) :INTEGER**

Returns the day of the month (1-31) of "datevar" □□□□

See also : Month Year Dow

**DBGLEVEL() :INTEGER**

Returns the debug level in effect

**DBGLEVEL dbg:integer**

Set the debug level to "dbg"

**DEFANS() :BIGSTR**

Returns the last default answer passed to an Input statement. For example, this allows a PPE to determine what the default answer would have been had a PCBTEXT prompt not been replaced with a PPE.

See also : LastAns

**DEFCOLOR() :INTEGER**

Returns the default color as specified in PCBSetup

**DEFCOLOR**

Resets the current color to the system default

See also : CurColor

**DOW(day:date) :INTEGER**



Returns the day of the week (0 = Sunday, 6 = Saturday) that "day" fell on □□□□  
See also : Date Month Year

**ERRCORRECT() : BOOLEAN**

Returns TRUE if a session is determined to be error corrected (or FALSE for non-error corrected sessions).

See also : Carrier

**EVTTIMEADJ() : BOOLEAN**

Detects if the users time has been adjusted for an upcoming event. This is useful to detect if a users time left can be increased with the AdjTime statement.

See also : AdjTime

**EXIST(file:string) : BOOLEAN**

Returns a boolean TRUE value if the file "file" exists

See also : Delete Copy Append FileInf Rename

**FERR(channel:integer) : BOOLEAN**

Returns TRUE if a file access error occurred on channel "channel" since the file was opened or FERR was last called

See also : FOpen

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**FILEINF(file:string,option:integer) : MULTITYPE**

Returns a piece of information (specified by "option") about the file "file"

Valid values for "options": 1 = Return TRUE if file exists

2 = Return file date stamp

3 = Return file time stamp

4 = Return file size

5 = Return file attributes

01h = Read Only

02h = Hidden

04h = System

20h = Archive

6 = Return file drive

7 = Return file path

8 = Return file base name

9 = Return file extension

Return value type is depending on the info requested. It may be BOOLEAN, DATE, INTEGER, STRING and TIME

See also : Delete Copy Append Exist Rename

**FMTCC(format: string) : STRING**

Returns a formatted credit card number based on "format" □□□  
See also CcType ValCC InputCC

**FMTREAL(realExp: real/dreal,fieldWidth: integer,decimalPlaces: integer)**

Formats REAL/DREAL values for display purposes.

realExp = A REAL/DREAL floating point expression

fieldWidth = The minimum number of characters to display

decimalPlaces = The number of characters to display to the right of the decimal point

**GETENV(var: string) : STRING**

Returns the value of the environment variable named by "var"

**GETTOKEN() : STRING**

Returns the next string token from a prior call to Tokenize (Same as the GETTOKEN statement but can be used in an expression without prior assignement to a variable)

**GETTOKEN VAR**

Get a token from a previous call to Tokenize and assign it to VAR

See also : Tokenize TokenStr TokCount

**GETX() : INTEGER**

Returns the current column (X position) of the cursor on the display  
See also : GetY AnsiPos

**GETY() : INTEGER**

Returns the current row (Y position) of the cursor on the display  
See also : GetX AnsiPos

**GRAFMODE() : STRING**

Returns a character indicating the users graphics status

R = RIPscrip supported

G = ANSI graphics (color and positioning) supported

A = ANSI positioning (no color) supported

N = No graphics (RIP or ANSI) supported

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See also : AnsiOn OnLocal

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**HELPPATH() :STRING**

Returns the path, as specified in PCBSetup, to the help files

See also : PPEPath SIPath TempPath

**HIMSGNUM() :INTEGER**

Returns the high message number for the current conference.

See also : LoMsgNum

**HOUR(dayhour:time) :INTEGER**

Returns the hour of the day (0-23) of "dayhour"

See also : Min Sec

**I2S(var1:integer,var2:integer) :STRING**

Returns a string representing the integer value "var1" converted to base "var2"

See also : S2i String

**INKEY() :STRING**

Returns the next keypress as a single character long string, or a string with the name of the function or cursor control key

See also : KInkey MGetByte MInkey

**INSTR(var1:bigstr,var2:bigstr) :INTEGER**

Returns the position of "var2" in "var1" (1-LEN(var1)) or 0 if "var2" not in "var1"

**ISBITSET(var:multitype, bit:integer) :BOOLEAN**

Check the status of a specified bit in a variable.

This function is primarily intended to be used with BIGSTR variables which can be up to 2048 bytes long. However, it will work with other data types (and expressions) as well if desired.

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See also : BitSet BitClear

**ISNONSTOP() :BOOLEAN**

Return whether or not the display is currently in non-stop mode ( ie, did the user type NS as part of their command line)

See also : StartDisp

**KBDBUFSIZE() :INTEGER**

Return the number of key presses pending in the KbdString buffer

See also : PPLBufSize KbdFlush KbdStuff KbdFile KbdString

KbdFileUsed MdmFlush KeyFlush KbdFlush

**KBDFILEUSED() :BOOLEAN**

Return TRUE if key presses are being stuffed via a KbdFile statement.

See also : KbdBufSize PPLBufSize KbdFlush KbdStuff KbdFile

MdmFlush KeyFlush KbdFlush KbdString

**KINKEY() :STRING**

Returns the next keypress from the BBS keyboard as a single character long string, or a string with the name of the function or cursor control key

See also : Inkey MInkey MGetByte

**LANGEXT() :STRING**

Returns the file extension for the users language selection

See also : Lang

**LASTANS() :STRING**

function to return the last answer accepted by an Input statement.

See also : DefAns

**LEFT(var1:string,var2:integer) :BIGSTR**

Returns the left-most "var2" characters of "var1"

See also : Right Mid

**LEN(var:bigstr) :INTEGER**

Returns the length of "var"

**LOGGEDON() :BOOLEAN**

Returns TRUE if the user has already logged on to the BBS, FALSE otherwise

**LOMSGNUM() :INTEGER**

Returns the low message number for the current conference.

See also : HiMsgNum

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**LOWER(var:bigstr) :BIGSTR**

Returns a string of "var" with all uppercase characters converted to lowercase characters

See also : Upper Mixed

**LPRINTED() :INTEGER**

Return the number of lines printed on the display

See also : StartDisp

**LTRIM(var1:bigstr,var2:string) :BIGSTR**

Returns a string of "var1" with the first character of "var2" trimmed from the left

See also : Rtrim Trim

**MASK\_ALNUM() :STRING**

Returns a valid character mask for input statements of A through Z, a through z, and 0 through 9

See also : Mask\_Alpha Mask\_Ascii Mask\_File Mask\_Num Mask\_Path Mask\_Pwd

**MASK\_ALPHA() :STRING**

Returns a valid character mask for input statements of A through Z and a through z

See also : Mask\_Alnum Mask\_Ascii Mask\_File Mask\_Num Mask\_Path Mask\_Pwd

**MASK\_ASCII() :STRING**

Returns a valid character mask for input statements of space (" ") through tilde ("~")

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See also : Mask\_Alpha Mask\_Alnum Mask\_File Mask\_Num Mask\_Path Mask\_Pwd

**MASK\_FILE() :STRING**

Returns a valid character mask for input statements of file names

See also : Mask\_Alpha Mask\_Ascii Mask\_Alnum Mask\_Num Mask\_Path Mask\_Pwd

**MASK\_NUM() :STRING**

Returns a valid character mask for input statements of 0 through 9

See also : Mask\_Alpha Mask\_Ascii Mask\_File Mask\_Alnum Mask\_Path Mask\_Pwd

**MASK\_PATH() :STRING**

Returns a valid character mask for input statements of path names

See also : Mask\_Alpha Mask\_Ascii Mask\_File Mask\_Num Mask\_Alnum Mask\_Pwd

**MASK\_PWD() :STRING**

Returns a valid character mask for input statements of passwords

See also : Mask\_Alpha Mask\_Ascii Mask\_File Mask\_Num Mask\_Path Mask\_Alnum

**MAXNODE() :INTEGER**

Returns the maximum node possible with the current software (ie, /2 would return 2, /10 would return 10, etc)

See also : PcbNode

**MEGANUM(number:integer)**

Converts a decimal number (from 0 to 1295) to a hexa-tri-decimal number, or meganum.

**MGETBYTE() :INTEGER**

Returns the value of the next byte from the modem (0-255) or -1 if there are no bytes waiting for input

See also : Inkey KInkey MInkey

**MID(var1:bigstr,var2:integer,var3:integer) :BIGSTR**

Returns a string from "var1" starting at the "var2" position of "var1" and containing "var3" characters of "var1"

See also : Right Left

**MIN(var1:time) : INTEGER**

Returns the minute of the hour (0-59) of "var1"  
See also : Hour Sec

**MINKEY() : STRING**

Returns the next keypress from the remote caller as a single character long string, or a string with the name of the function or cursor control key  
See also : Inkey KInkey MGetByte

**MINLEFT() : INTEGER**

Returns the current callers minutes left to use online  
See also : MinOn

**MINON() : INTEGER**

Returns the current callers minutes online so far this session  
See also : MinLeft

**MIXED(var1:string)**

Converts a string to mixed (or proper name) case  
See also : Upper Lower

**MKADDR(seg:integer, off:integer) : INTEGER**

Returns a segment:offset address as a long integer built from two word sized values by the formula: (var1\*00010000h+var2)  
See also : VarSeg VarOff VarAddr

**MKDATE(year:integer, month:integer, day:integer) : DATE**

Returns a date with the year specified by "year" (1900-2079), month specified by "month" (1-12), and day specified by "day" (1-31).  
See also : Year Month Day

**MODEM() : STRING**

Returns the modem connect string as reported by the modem to PCBoard  
See also : Carrier

**MONTH(var1:date) : INTEGER**

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Returns the month of the year (1-12) of "var1"  
See also : Year Day Dow

**NOCHAR() : STRING**  
████████████████

Returns the current language no character  
See also : YesChar

**NOT(var1:integer) : INTEGER**  
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Returns the bitwise complement (all bits inverted) of an integer expression  
See also : Or And Xor

**ONLOCAL() : BOOLEAN**  
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Returns TRUE if the user is on locally  
See also : AnsiOn GrafMode

**OR(var1:integer, var2:integer) : INTEGER**  
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Returns the bitwise or of two integer expressions  
See also Xor And Not

**PAGESTAT() : BOOLEAN**  
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Returns TRUE if the user has paged the SysOp (or PageOn has been issued), FALSE otherwise (or PageOff has been issued)  
See also : ChatStat

**PCBDAT() : STRING**  
████████████████████

Returns a string with the path and file name of PCBOARD.DAT

**PCBNODE() : INTEGER**  
████████████████████████

Returns the node number  
See also : MaxNode

**PEEKB(var:integer) : INTEGER**  
████████████████████████████

Returns a byte value (0-255) located at memory address "var" (PEEK is a synonym) -  
□□□  
See also : PeekDW PeekW PokeB PokeW PokeDW



**PEEKDW(var:integer) : INTEGER**

Returns a signed integer value (-2147483648 - +2147483647) located at memory address "var"

See also : PeekB PeekW PokeB PokeW PokeDW

**PEEKW(var:integer) : INTEGER**

Returns a word value (0-65535) located at memory address "var"

See also : PeekDW PeekB PokeB PokeW PokeDW

**PPENAME() : STRING**

Returns the name of the currently executing PPE file minus the path and extension

See also : PPEPath

**PPEPATH() : STRING**

Returns a string with the path (no file name) of the currently executing PPE file

See also : PPEName

**PPLBUFSIZE() : INTEGER**

Returns the number of key presses pending in the KbdStuff buffer.

See also : KbdBufSize KbdFlush KbdStuff KbdFile KbdString  
KbdFileUsed MdmFlush KeyFlush KbdFlush

**PSA(var:integer) : BOOLEAN**

Returns TRUE if the feature specified by "var" is enabled, FALSE if the feature specified by "var" is disabled

Valid values for var:

- 1 = Alias Support Enabled
- 2 = Verify Support Enabled
- 3 = Address Support Enabled
- 4 = Password Support Enabled
- 5 = Statistics Support Enabled
- 6 = Notes Support Enabled

See also : TPAGet

**RANDOM(var:integer) : INTEGER**

Returns a random number between 0 and "var" inclusive

**READLINE(file:string, line:integer) :STRING**

Read and return line number "line" from file "file"

**REGAH() :INTEGER**

Returns the value of the AH register after a DoIntr statement  
See also : RegAl RegAx

**REGAL() :INTEGER**

Returns the value of the AL register after a DoIntr statement  
See also : RegAh RegAx

**REGAX() :INTEGER**

Returns the value of the AX register after a DoIntr statement  
See also : RegAh RegAl

**REGBH() :INTEGER**

Returns the value of the BH register after a DoIntr statement  
See also : RegBl RegBx

**REGBL() :INTEGER**

Returns the value of the BL register after a DoIntr statement  
See also : RegBh RegBx

**REGBX() :INTEGER**

Returns the value of the BX register after a DoIntr statement  
See also : RegBh RegBl

**REGCF() :BOOLEAN**

Returns the state of the carry flag after a DoIntr statement  
See also : RegF

**REGCH() :INTEGER**

Returns the value of the CH register after a DoIntr statement  
See also : RegCl RegCx

**REGCL() :INTEGER**

Returns the value of the CL register after a DoIntr statement  
See also : RegCh RegCx

**REGCX() :INTEGER**

**REGCX()** : INTEGER  
Returns the value of the CX register after a DoIntr statement  
See also : RegCh RegCl

**REGDH()** : INTEGER  
Returns the value of the DH register after a DoIntr statement  
See also : RegDI RegDx

**REGDI()** : INTEGER  
Returns the value of the DI register after a DoIntr statement  
See also : DoIntr

**REGDL()** : INTEGER  
Returns the value of the DL register after a DoIntr statement  
See also : RegDh RegDx

**REGDS()** : INTEGER  
Returns the value of the DS register after a DoIntr statement  
See also : DoIntr

**REGDX()** : INTEGER  
Returns the value of the DX register after a DoIntr statement  
See also : RegDh RegDI

**REGES()** : INTEGER  
Returns the value of the ES register after a DoIntr statement  
See also : DoIntr

**REGF()** : INTEGER  
Returns the value of the flags register after a DoIntr statement  
See also : RegCf DoIntr

**REGSI()** : INTEGER  
Returns the value of the SI register after a DoIntr statement  
See also : DoIntr

**REPLACE(str:bigstr, search:string, replace:string) : BIGSTR**  
Returns a string of "str" with all occurrences of the first character of "search" replaced by the first character of "replace"

See also : ReplaceStr

REPLACESTR(str:bigstr, search:string, replace:string) :BIGSTR

---

It functions just like the Replace function except that a complete sub-string may be specified for both search and replace

str is the string to work on

search is the string to search for

replace is the string to replace search with

See also : Replace

RIGHT(str:bigstr, len:integer) :BIGSTR

---

Returns the right-most "len" characters of "str"

See also : Left

RTRIM(str1:bigstr, trim:string) :BIGSTR

---

Returns a string of "str1" with the first character of "trim" trimmed from the right

See also : Ltrim

S2I(str:string, base:integer) :INTEGER

---

Returns an integer representing the string "str" converted from base "base"

See also : I2s

SCRTEXT(col:integer, row:integer, len:integer, code:boolean) :STRING

---

Returns a string with the text (and color information in the form of @X codes if "code" is TRUE) from column "col", row "row", and of length "len"

See also : ScrFile

SEC(var:time) :INTEGER

---

Returns the second of the minute (0-59) of "var"

See also : Hour Min

SHOWSTAT() :BOOLEAN

---

Returns TRUE if writing to the display is active, FALSE if writing to the display is disabled

See also : ShowOff ShowOn

SLPATH() :STRING

---

Returns the path, as specified in PCBSetup, to the login security files

See also : HelpPath PPEPath TempPath

SPACE(len:integer) :BIGSTR

---

Returns a string of spaces "len" characters long

**STRING(var:multitype) :STRING**

Returns "var" converted to a string

See also : I2s

**STRIP(str:bigstr, char:string) :BIGSTR**

Returns a string of "str" with all occurrences of the first character of "char" removed

See also : StripAtx StripStr

**STRIPATX(str:bigstr) :BIGSTR**

Returns a string of "str" with all @X codes removed □□□□

See also : Strip StripStr

**STRIPSTR(str:bigstr, search:string) :BIGSTR**

Functions just like the Strip function except that a complete sub-string may be specified for search

str is the string to work on

search is the string to search for

□□□□

See also : Strip StripAtx

**SYSOPSEC() :INTEGER**

Returns the SysOp security defined in PCBOARD.DAT

See also : CurSec

**TEMPPATH() :STRING**

Returns the path, as specified in PCBSetup, to the temporary work directory

See also : SIPath HelpPath PPEPath

**TIME() :TIME**

Returns the current time

See also : TimeAP Date

**TIMEAP(var:time) :STRING**

Returns a string representing the time "var" in civilian format (XX:XX:XX AM)

See also : Time

**TOKCOUNT() :INTEGER**

Returns the number of tokens available via the GetToken statement and/or function

See also : Tokenize GetToken TokenStr

**TOKENSTR() :STRING**

Returns a previously tokenized string reconstructed with semi-colons separating the component tokens

See also : Tokenize GetToken TokCount

**Totype(exp)**

TOBOOLEAN, TOMONEY, TOSTRING, TOBIGSTR, TOINTEGER, TOUNSIGNED, TOREAL, TODREAL, TOFLOAT, TODOUBLE, TODATE, TOEDATE, TOTIME, TOBYTE, TOWORD, TODWORD, TOUBYTE, TOWORD, TOUDWORD, TOSBYTE, TOSWORD, TOSDWORD, TOSHORT, TOINT, & TOLONG

Used to force the result of an expression to a specific type

Usage: Totype(exp) (returns type)

type is the actual type to force (BIGSTR, BOOLEAN, etc.)

exp is an expression of any type

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See also : S2i I2s String

**TRIM(str:bigstr, char:string) :BIGSTR**

Returns a string of "str" with the first character of "char" trimmed from both ends

See also : Rtrim Ltrim

**UPPER(str:bigstr) :BIGSTR**

Returns a string of "str" with all lowercase characters converted to uppercase characters

See also : Lower Mixed

**UN\_CITY() :STRING**

Returns a nodes city from USERNET.XXX after a RdUnet statement

See also : Un\_Name Un\_Oper Un\_Stat

**UN\_NAME() :STRING**

Returns a nodes user name from USERNET.XXX after a RdUnet statement

See also : Un\_City Un\_Oper Un\_Stat

**UN\_OPER() :STRING**

Returns a nodes operation text from USERNET.XXX after a RdUnet statement

See also : Un\_City Un\_Name Un\_Stat

**UN\_STAT() :STRING**

Returns a nodes status from USERNET.XXX after a RdUnet statement

See also : Un\_City Un\_Name Un\_Oper

**U\_BDL() :INTEGER**

Returns the current users number of bytes downloaded

See also : U\_BdIDay U\_Bul U\_FdIU\_Ful U\_InConf

U\_LDate U\_LDir U\_LmrU\_Logons U\_LTime

U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_BDLDAY() : INTEGER**

Returns the current users number of bytes downloaded today

See also : U\_BdlU\_Bul U\_FdlU\_Ful U\_InConf  
U\_LDate U\_LDir U\_LmrU\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_BUL() : INTEGER**

Returns the current users number of bytes uploaded

See also : U\_BdlU\_BdlDay U\_FdlU\_Ful U\_InConf  
U\_LDate U\_LDir U\_LmrU\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_FDL() : INTEGER**

Returns the current users number of files downloaded

See also : U\_BdlU\_BdlDay U\_BulU\_Ful U\_InConf  
U\_LDate U\_LDir U\_LmrU\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_FUL() : INTEGER**

Returns the current users number of files uploaded

See also : U\_BdlU\_BdlDay U\_BulU\_Fdl U\_InConf  
U\_LDate U\_LDir U\_LmrU\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_INCONF(record:integer, conf:integer) : BOOLEAN**

Returns TRUE if user record number "record" is registered in conference "conf"

See also : U\_BdlU\_BdlDay U\_BulU\_Fdl U\_Ful  
U\_LDate U\_LDir U\_LmrU\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_LDATE() : DATE**

Returns the current users last date on the system

See also : U\_BdlU\_BdlDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDir U\_LmrU\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_LDIR() : DATE**

Returns the current users last directory scan date

See also : U\_BdIU\_BdIDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LmrU\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_LMR(confNum:integer) : INTEGER**

function to return the number of the last message read for the specified conference.

See also : U\_BdIU\_BdIDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Logons U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_LOGONS() : INTEGER**

Returns the current users number of times logged on

See also : U\_BdIU\_BdIDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_LTime  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_LTIME() : TIME**

Returns the current users last time on the system

See also : U\_BdIU\_BdIDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_MsgRd U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_MSGRD() : INTEGER**

Returns the number of messages the user has read

See also : U\_BdIU\_BdIDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_LTime U\_MsgWr U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_MSGWR() : INTEGER**

Returns the number of messages the user has written

See also : U\_BdIU\_BdIDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_LTime U\_MsgRd U\_Name U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

**U\_NAME() : STRING**

Returns the current users name

See also : U\_BdIU\_BdIDay U\_BulU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_LTime U\_MsgRd U\_MsgWr U\_PwdHistU\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn



U\_PWDHIST(hist:integer) :STRING

Returns the specified password from the password history Valid values for "hist" are 1 through 3

See also : U\_BdIU\_BdIDay U\_BuIU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_LTime U\_MsgRd U\_MsgWr U\_Name U\_PwdLc  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

U\_PWDLC() :DATE

Returns the date of the last password change

See also : U\_BdIU\_BdIDay U\_BuIU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_LTime U\_MsgRd U\_MsgWr U\_Name U\_PwdHist  
U\_PwdTc U\_RecNum U\_Stat U\_TimeOn

U\_PWDTC() :INTEGER

Returns the number of times the password has been changed

See also : U\_BdIU\_BdIDay U\_BuIU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_LTime U\_MsgRd U\_MsgWr U\_Name U\_PwdHist  
U\_PwdLc U\_RecNum U\_Stat U\_TimeOn

U\_RECNUM(user:string) :INTEGER

Returns the user record number (0-65535) for user name "user" or -1 if "user" is not registered on this system.

See also : U\_BdIU\_BdIDay U\_BuIU\_Fdl U\_Ful  
U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
U\_LTime U\_MsgRd U\_MsgWr U\_Name U\_PwdHist  
U\_PwdLc U\_PwdTc U\_Stat U\_TimeOn

U\_STAT(option:integer) :DATE or :INTEGER

Returns a statistic about the user that is tracked by PCBoard 5□□□

Valid values for "option" are 1 through 15

- 1 - Returns the first date the user called the system
- 2 - Returns the number of SysOp pages the user has requested
- 3 - Returns the number of group chats the user has participated in
- 4 - Returns the number of comments the user has left
- 5 - Returns the number of 300 bps connects
- 6 - Returns the number of 1200 bps connects
- 7 - Returns the number of 2400 bps connects
- 8 - Returns the number of 9600 bps connects
- 9 - Returns the number of 14400 bps connects
- 10 - Returns the number of security violations
- 11 - Returns the number of "not registered in conference" warnings

- 12 - Returns the number of times the users download limit has been reached
- 13 - Returns the number of "file not found" warnings
- 14 - Returns the number of password errors the user has had
- 15 - Returns the number of verify errors the user has had

See also : U\_BdIU\_BdIDay U\_BuIU\_Fdl U\_Ful  
 U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
 U\_LTime U\_MsgRd U\_MsgWr U\_Name U\_PwdHist  
 U\_PwdLc U\_PwdTc U\_RecNum U\_TimeOn

**U\_TIMEON() : INTEGER**

Returns the current users time online today in minutes

See also : U\_BdIU\_BdIDay U\_BuIU\_Fdl U\_Ful  
 U\_InConf U\_LDate U\_LDir U\_Lmr U\_Logons  
 U\_LTime U\_MsgRd U\_MsgWr U\_Name U\_PwdHist  
 U\_PwdLc U\_PwdTc U\_RecNum U\_Stat

**VALCC(CCnum:string) : BOOLEAN**

Returns TRUE if "CCnum" is a valid credit card number

See also : ValCC InputCC CcType

**VALDATE(date:string) : BOOLEAN**

Returns TRUE if "date" is in a valid date format

See also : ValTime

**VALTIME(time:string) : BOOLEAN**

Returns TRUE if "time" is in a valid time format

See also : ValDate

**VER() : INTEGER**

Returns the version number of PCBoard that is running

**XOR(var1:integer, var2:integer) : INTEGER**

Returns the bitwise exclusive-or of two integer expressions

See also : Or And Not

**YEAR(var:date) : INTEGER**

Returns the year (1900-2079) of "var"

See also : Month Day Dow

**YESCHAR() : STRING**

Returns the current language yes character

See also : NoChar

**ADJTIME min:integer**

Add or subtract "min" minutes to the users time available this session  
See also : EvtTimeAdj

**ANSIPOS col:integer, row:integer**

If ANSI is available, position the cursor in column "col" and in row "row"  
Legal ranges: 1 <= col <= 80  
1 <= row <= 23 (Because of the status lines)  
(1,1) is the top left corner of the screen

Note : Be aware that the user may have a different number of lines on his screen... if the user has 50 lines for exemple and that you do an ANSIPOS sentence to position the cursor on the 23rd line, the user will have a prompt in the middle of his screen...

See also : GetX GetY

**BACKUP var:integer**

Backup (move the cursor to the left) "var" columns without going past column 1  
See also : Forward

**BITCLEAR variable:multitype, bit:integer**

Clears a specified bit from a variable.  
This statement is primarily intended to be used with BIGSTR variables which can be up to 2048 bytes long. However, it will work with other data types as well if desired. Just be aware of the potential problems in 'bit twidling' non-string buffers and then trying to access them later as their 'intended' type without re-initializing the variable. If the bit parameter (an integer from 0 to the number of bits in the object) is invalid no processing takes place. □□□□  
See also : BitSet IsBitSet

**BITSET variable:multitype, bit:integer**

Set a specified bit from a variable.  
This statement is primarily intended to be used with BIGSTR variables which can be up to 2048 bytes long. However, it will work with other data types as well if desired. Just be aware of the potential problems in 'bit twidling' non-string buffers and then trying to access them later as their 'intended' type without re-initializing the variable. If the bit parameter (an integer from 0 to the number of bits in the object) is invalid no processing takes place. □□□  
See also : BitClear IsBitSet

**BLT bltnr:integer**

Display bulletin number "bltnr"

**BROADCAST var1:integer, var2:integer, message:string**

Broadcast message "message" to nodes from "var1" to "var2" inclusive

□□□

BYE

Same as having the user type BYE from the command prompt  
See also : Goodbye Hangup DtrOff

CALL ppename

Load and execute PPE filename specified by "ppename"  
See also : Shell

CDCHKOFF

Turn off carrier detect checking  
See also : CdCheckOn CdOn

CDCHKON

Turn on carrier detect checking  
See also : CdCheckOff CdOn

CHAT

Initiate SysOp chat mode  
See also : ChatStat PageStat

CLOSECAP

Close the capture file previously opened with OpenCap  
See also OpenCap

CLREOL

Clear to the end of the line, with the current color if in ANSI mode  
See also : Cls

□□□

CLS

Clear the screen, with the current color if in ANSI mode  
See also : ClrEol

COLOR clr:integer

Change the current color to "clr"  
See also : CurColor DefColor

CONFFLAG conf:integer, flags:integer

Turn on the conference "conf" flags specified by "flags"  
See also : ConfSel ConfSys ConfMw CurConf ConfExp CurConf  
ConfUnFlag Join ConfAlias LastIn ConfReg

**CONFUNFLAG** conf:integer, flags:integer

Turn off the conference "conf" flags specified by "flags"

See also : ConfSel ConfSys ConfMw CurConf ConfExp CurConf  
ConfFlag Join ConfAlias LastIn ConfReg

**DEC** var:multitype

Decrement the value of var

See also : Inc

**DELAY** dlay:integer

Pause for "dlay" clock ticks (1 clock tick = 1/18.2 second)

See also : Wait

**DELETE** file:string

Deletes the filename specified by "file" (ERASE is a synonym)

See also : Copy Append Exist FileInf Rename

**DELUSER**

Flags the current user record for deletion

**DIR** arg:string

Performs a file directory command, passing it "arg" as arguments

**DISPFILE** file:string, flag:integer

Display file "file" with "flag" alternate file flags

valid flags : GRAPH

SEC

LANG

See also : DispStr

**DISPSTR** var:string

Display file if "var" is "%filename", execute PPE if "var" is "!filename", or display string "var"

**DISPTEXT** promptnr:integer, flagson:integer

Display PCBTEXT prompt "promptnr" using flags "flagson"

valid flags : NEWLINE

LFBEFORE

LFAFTER

BELL

LOGIT

## LOGITLEFT

See also : DispFile

DOINTR intr, ax, bx, cx, dx, si, di, flags, ds, es (all is integer)

---

Generate interrupt number "intr" (0-255) with the register values passed as parameters

Note : Use DoIntr at your own risks !

See also : RegAx RegAh RegAl

RegBx RegBh RegBl

RegCx RegCh RegCl

RegDx RegDh RegDl

RegDi RegEs RegSi

RegDs RegCf RegF

## DTROFF

Turn off the DTR signal

Note : on most modems, lowering DTR will cause modem to hangup... this is a good way if you want to simulate a bad connection, and then hangup without goodbye screens... This is the best way for you, the nice sysop, to free your line quickly... :)

See also : DtrOn Goodbye Bye Hangup

## DTRON

Turn on the DTR signal

See also : DtrOff

□□□

END

End PPE execution

See also : End If End While

FAPPEND chnl:integer, file:string, access:integer, shrmod:integer

---

Use channel "chnl" to open file "file" in append mode with access mode "access" and share mode "shrmod"

valid channels: 0 - 7 [0 is used for script questionnaires]

valid access modes : O\_RD, O\_WR, O\_RW [should use O\_RW]

valid share modes : S\_DN, S\_DR, S\_DW, S\_DB

See also : FOpen FClose FCreate

FCLOSE chnl:integer

Close channel "chnl"

Accept channel -1 as the ReadLine() function 'channel' and close it

See also : FAppend FClose FCreate FFlush

FCREATE chnl:integer, file:string, access:integer, shrmod:integer

---

Use channel "chnl" to create and open file "file" in access mode "access" and share mode "shrmod"

valid channels: 0 - 7 [0 is used for script questionnaires]

valid access modes : O\_RD, O\_WR, O\_RW [should use O\_WR]

valid share modes : S\_DN, S\_DR, S\_DW, S\_DB

See also : FOpen FClose FAppend

FGET chnl:integer, var:multitype

---

Read a line from channel "chnl" and assign it to "var"

See also : FPut FPutLn FPutPad FRead

FOPEN chnl:integer, file:string, access:integer, shrmod:integer

---

Use channel "chnl" to open file "file" in access mode "access" and share mode "shrmod"

valid channels: 0 - 7 [0 is used for script questionnaires]

valid access modes : O\_RD, O\_WR, O\_RW

valid share modes : S\_DN, S\_DR, S\_DW, S\_DB

See also : FCreate FClose FAppend FDefIn FDefOut

FOR ... NEXT

---

Usage :

FOR VAR = start:integer TO stop:integer [STEP incstep:integer]

...

NEXT

FOR - Initializes a loop by assigning "start" to VAR and continuing while VAR <= "stop" (if "incstep" >= 0) or VAR >= "stop" (if "incstep" < 0) (TO is required to separate "start" and "stop". If STEP (optional) is not specified "incstep" defaults to 1)  
NEXT - Adds "incstep" to VAR, transfers control to the closest FOR statement, and marks the end of the FOR loop

See also : While...EndWhile If...Then

FORWARD var:integer

---

Move the cursor forward (to the right) "var" columns without going past column 80

See also : Backup

FPUT chnl:integer, str:string[, str:string...]

---

Write one or more "str" out to channel "chnl"

See also : FGet FPutLn FPutPad FWrite FWrite

FPUTLN chnl:integer[, str:string[, str:string...]]

Write zero or more "str" out to channel "chnl" and terminate with a carriage return/line feed pair

See also : FGet FPut FPutPad FRead FWrite

**FPUTPAD** chnl:integer, str:string, len:integer

Write out "str", padding or truncating to length "len" as needed, to channel "chnl"

See also : FGet FPut FPutLn FRead FWrite

**FRESHLINE**

If the cursor is not in column 1, do a newline

See also : NewLine NewLines

**REWIND** chnl:integer

Rewind channel "chnl" after flushing buffers and committing the file to disk.

See also : FSeek

**GETUSER**

Fill the predefined variables (U\_...) with current information from the user record

**GOSUB LABEL**

Transfer control to LABEL, marking the current PPE location for a future Return statement (GO SUB is a synonym)

See also : GoTo

□□

**GOTO LABEL**

Transfer control to LABEL (GO TO is a synonym)

See also : GoSub

**GOODBYE**

Same as having the user type G from the command prompt □□□

See also : Bye DtrOff Hangup

**HANGUP**

Hangup on the user without any notification

See also : Bye Goodbye DtrOff

**IF ... THEN ... ELSE**

Usage 1:

IF (exp:boolean) statement ...

Evaluate "exp" and, if true, execute statement; otherwise skip to the next statement

Usage 2:

IF (exp:boolean) THEN

...



ELSEIF (exp2:boolean) THEN

...

ELSE

...

ENDIF

IF - If expression cond is TRUE then this statement transfers control to the statement(s) following it, otherwise control is transferred to the next ELSEIF, ELSE or ENDIF statement (requires THEN [or DO] after the condition)

ELSEIF - (optional) If expression cond is TRUE then this statement transfers control to the statements following it, otherwise control is transferred to the next ELSEIF, ELSE or ENDIF statement There may be multiple ELSEIF statements between the IF and ELSE statements (ELSE IF is a synonym; nothing is required to come after the condition, although THEN [or DO] may appear for clarification and consistency in the source code)

ELSE - (optional) Separates the false portion of an IF/ELSEIF statement from the true portion

ENDIF - Ends an IF/ELSEIF/ELSE statement block (END IF is a synonym)

See also : While...EndWhile For...Next

**INC var:multitype**

Increment the value of "var"

See also : Dec

**INPUT prompt:string, var:string**

Display "prompt" and get input from user, assigning it to "var" (60 characters maximum)

See also : InputCC InputDate InputInt InputMoney InputStr  
InputText InputTime InputYN

**INPUTCC prompt:string, var:string, color:integer**

Display "prompt" in color "color" and get a credit card formatted string from the user, assigning it to "var" (16 characters maximum, valid characters 0-9)

See also : InputInputDate InputInt InputMoney InputStr  
InputText InputTime InputYN

**INPUTDATE prompt:string, var:string, color:integer**

Display "prompt" in color "color" and get a date formatted string from the user, assigning it to "var" (8 characters maximum, valid characters 0-9 - /)

See also : InputInputCC InputInt InputMoney InputStr  
InputText InputTime InputYN

**INPUTINT prompt:string, var:string, color:integer**

Display "prompt" in color "color" and get an integer formatted string from the user, assigning it to "var" (11 characters maximum, valid characters 0-9)

See also : InputInputCC InputDate InputMoney InputStr  
InputText InputTime InputYN

**INPUTMONEY** prompt:string, var:string, color:integer

---

Display "prompt" in color "color" and get a money formatted string from the user, assigning it to "var" (13 characters maximum, valid characters 0-9 \$ .)

See also : InputInputCC InputDate InputInt InputStr  
InputText InputTime InputYN

**INPUTSTR...**

---

Usage :

**INPUTSTR** prompt:string, var:string, color:integer, len:integer, valid:string, flags:string

Display "prompt" in color "color" and get a string (maximum length "len", valid characters "valid", flags "flags") from the user, assigning it to "var"

valid length : 1-256

valid characters : any string

valid flags : ECHODOTS

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HIGHASCII

AUTO

YESNO

See also : InputInputCC InputDate InputInt InputMoney  
InputText InputTime InputYN

**INPUTTEXT** prompt:string, var:string, color:integer, len:integer

---

Display "prompt" in color "color" and get a string (maximum length "len") from the user, assigning it to "var"

See also : InputInputCC InputDate InputInt InputMoney  
InputStr InputTime InputYN

**INPUTTIME** prompt:string, var:string, color:integer

---

Display "prompt" in color "color" and get a time formatted string from the user, assigning it to "var" (8 characters maximum, valid characters 0-9 :)

See also : Input InputCC InputDate InputInt InputMoney  
InputStr InputText InputYN

**INPUTYN** prompt:string, var:string, color:integer

Display "prompt" in color "color" and get a yes/no response from the user, assigning it to "var" (1 characters maximum, valid characters determined by language)

See also : InputInputCC InputDate InputInt InputMoney  
InputStr InputText InputTime

**JOIN** conf:integer

Performs a join conference command, passing it "conf" as arguments

See also : ConfSel ConfSys ConfMwCurConf ConfExp  
CurConf ConfFlag ConfUnFlag ConfAlias LastIn  
ConfReg

**KBDCHKOFF**

Turn off keyboard time out checking

**KBDCHKON**

Turn on keyboard time out checking

**KBDFILE** file:string

Stuff the keyboard buffer with the contents of file "file"

See also : KbdBufSize PPLBufSize KbdFlush KbdStuff KbdString  
KbdFileUsed MdmFlush KeyFlush KbdFlush

**KBDSTUFF** str:string

Stuff the keyboard buffer with the contents of "str"

See also : KbdBufSize PPLBufSize KbdFlush KbdFile KbdString  
KbdFileUsed MdmFlush KeyFlush KbdFlush

**LET** var:multitype = EXP

Evaluate expression "EXP", convert and assign to "VAR"

NOTE: LET is the only optional keyword. If no keyword is found, LET is assumed. There are certain circumstances where it may be required, such as assignment to a variable named the same as a statement. PRINT, for example, would require a line such as LET PRINT = TRUE instead of just PRINT = TRUE)

**LOG** str:string, just:boolean

Write string "str" to the callers log, left justified if "just" is TRUE

**MESSAGE...**

Usage :

MESSAGE conf:integer, to:string, from:string, subject:string, sec:string,  
msgdate:date, retreceipt:boolean, echo:boolean, file:string

Write a message in conference "conf", to user "to" (empty string defaults to current caller), from user "from" (empty string defaults to current caller), subject "subject", security in "sec" (N or R; N is the default), pack out date in "msgdate" (0 for no pack out date), "retreceipt" True if return receipt desired, "echo" TRUE if message should be echoed, and "file" is the filename to use for the message text

## **MORE**

Displays a MORE? prompt  
See also : Wait Delay

## **MOUSEREG num,x1,y1,x2,y2,fontX,fontY,invert,clear,text**

Set up a RIP mouse region on the remote terminal.

num = Is the RIP region number  
x1,y1 = The (X,Y) coordinates of the upper-left of the region  
x2,y2 = The (X,Y) coordinates of the lower-right of the region  
fontX = The width of each character in pixels  
fontY = The height of each character in pixels  
invert = A boolean flag (TRUE to invert the region when clicked)  
clear = A boolean flag (TRUE to clear and full screen the text window)  
text = Text that the remote terminal should transmit when the region is clicked  
See also : GrafMode

## **MPRINT str:string[, str:string...]**

Display one or more string expressions on the callers screen only (this statement does not send anything to the BBS screen)  
See also : MPrintLn Print PrintLn SPrint SPrintLn

## **MPRINTLN [str:string[, str:string...]]**

Display zero or more string expressions on the callers screen only and follow with a newline (this statement does not send anything to the BBS screen)  
See also : MPrint Print PrintLn SPrint SPrintLn

## **NEWLINE**

Write a newline to the display □□□  
See also : NewLines FreshLine

## **NEWLINES var**

Write "var" newlines to the display □□□  
See also : NewLine FreshLine

## **OPENCAP captfile:string, error:boolean**

Open "captfile" and capture all screen output to it.  
If an error occurs creating or opening "captfile", "error" is set to TRUE, otherwise "error" is set to FALSE.  
See also : CloseCap

**OPTEXT str:string**  
[REDACTED]

Writes string "str" into the @OPTEXT@ macro

**PAGEOFF**  
[REDACTED]

Turn off the SysOp paged indicator (flashing p on status line)

See also : PageOn

**PAGEON**  
[REDACTED]

Turn on the SysOp paged indicator (flashing p on status line)

See also : PageOff

**POKEB addr:integer, val:integer**  
[REDACTED]

Assign the value "val" (0-255) to memory address "addr" (POKE is a synonym)□□□

See also : PeekB PeekDW PeekW PokeW PokeDW

**POKEDW addr:integer, val:integer**  
[REDACTED]

Assign the value "val" (-2147483648 - +2147483647) to memory address "addr"

See also : PeekB PeekDW PeekW PokeB PokeW

**POKEW addr:integer, val:integer**  
[REDACTED]

Assign the value "val" (0-65535) to memory address "addr"

See also : PeekB PeekDW PeekW PokeB PokeDW

**POP var[,var...]**  
[REDACTED]

Pop values (previously pushed onto the stack) into a list of variables

See also : Push

**PRFOUND & PRFOUNDLN**  
[REDACTED]

These work just like Print and PrintLn but, if the last SearchFind statement resulted in a match, it will automatically highlight found words.

See also : SearchFind

**PRINT str:string[, str:string...]**  
[REDACTED]

Display one or more string expressions

See also : MPrint MPrintLn PrintLn SPrint SPrintLn

**PRINTLN [str:string[, str:string...]]**  
[REDACTED]

Display zero or more string expressions and follow with a newline

See also : MPrint MPrintLn Print SPrint SPrintLn

**PROMPTSTR prompt:integer, var:string, len:integer, valid:string, flags:integer**

---

Display PCBTEXT entry "prompt" and get a string (maximum length "len", valid characters "valid", flags "flags") from the user, assigning it to "var"

valid length: 1-256

valid characters : any string

valid flags : ECHODOTS

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AUTO

YESNO

See also : DispText

**PUSH var[,var...]**

Push a list of evaluated expressions onto the stack

See also : Pop

**PUTUSER**

Write the information from the predefined variables (U\_...) to the user record

This statement is only intended to update user information if a successful GetUser or GetAltUser was issued previously. This was done to ensure that information for the current user wasn't written to another user or vice versa.

See also : GetUser

**QUEST nr:integer**

Do script questionnaire "nr"

**RDUNET node:integer**

Read information from USERNET.XXX for node "node"

See also : RdUsys WrUnet WrUsys

**RDUSYS**

Reads a USERS.SYS file, if present, and updates the users record

See also : RdUnet WrUnet WrUsys

**RENAME oldname:string, newname:string**

Rename file "oldname" to "newname"

See also : Delete Copy Append Exist FileInf

## **RESETDISP**

Reset the display after an user abort

## **RESTSCRN**

Restore the screen from the buffer previously saved with SaveScrn

See also : SaveScrn

## **RETURN**

Return to the statement after the last GoSub or, if no GoSub is waiting for a RETURN, End the PPE

## **SAVESCRN**

Save the current screen in a buffer for later restoration with the RestScrn

See also : RestScrn

## **SCRFILE lineVar, filenameVar**

Find a file name and line number that is currently on the screen.

lineVar= Should be set before calling to the line number to start searching on (1 is the top line); Will be set to the line number where the file name was found or 0 if no file name was found filenameVar = Will be set to the file name if one is found on screen

See also : ScrText

## **SENDMODEM str:string**

Send the text in "str" out to the modem

## **SEARCHINIT criteria, caseSensitive**

Initialize search parameters for a faster BOYER-MOORE search algorithm.

criteria = A string expression with the search criteria in the same format used by PCBoard (ie, "THIS & THAT | BOB") caseSensitive = A boolean flag (TRUE to force a case sensitive search, FALSE otherwise)

See also : SearchFind PRFound/PRFoundLn SearchStop

## **SEARCHFIND bufferExpr, foundVar**

Execute a BOYER-MOORE search on a text buffer using criteria previously defined with a SearchInit statement.

bufferExpr = The buffer to search foundVar = Set to TRUE if bufferExpr contains the search criteria, FALSE otherwise

See also : SearchInit PRFound/PRFoundLn SearchStop

## **SEARCHSTOP**

Clears out previously entered search criteria. It takes no parameters.

See also : SearchInit SearchFind PRFound/PRFoundLn

**SHELL** com:boolean, code:integer, prog:string, arg:string

Shell (via COMMAND.COM if "com" is TRUE) to program/command "prog" with arguments "arg", saving the return value in "var"

NOTE: If "com" is TRUE, the value assigned to "var" will be the return code of COMMAND.COM, not "prog")

See also : Call

**SHOWOFF**

Turns off display of information to the screen □□□□

See also : ShowStat ShowOn

**SHOWON**

Turns on display of information to the screen

See also : ShowStat ShowOff

**SORT** sortArray, pointerArray

Sort the contents of an array into a pointer array.

sortArray = The data to sort (Any type may be used for this array)

pointerArray = An integer array which will be used as an array of pointers into sortArray for accessing sortArray in sorted order (This array should be of type INTEGER)

Note that sortArray and pointerArray are restricted to one (1) dimensional arrays.

The following is an example of displaying an array in unsorted and sorted order:

STRING s(999) ; Remember that arrays are 0-based, so these statements

INTEGER p(999) ; will allocate 1000 elements each

; Do something here to read data into s

SORT s,p

INTEGER i

FOR i = 0 TO 999 ; This loop will display in unsorted order

PRINTLN s(i)

NEXT

FOR i = 0 TO 999 ; This loop will display in sorted order

PRINTLN s(p(i))

NEXT

**SOUND** freq:integer

Turn on the BBS PC speaker at the frequency (1-65535) specified by "freq" (or turn it off if the frequency is 0)

**SPRINT** str:string[, str:string...]

Display one or more string expressions on the BBS screen only (this statement does not send anything to the modem)

See also : MPrintLn MPrint Print PrintLn SPrintLn



**SPRINTLN [str:string[, str:string...]]**

Display zero or more string expressions on the BBS screen only and follow with a newline (this statement does not send anything to the modem)

See also : MPrintLn MPrint Print PrintLn SPrint

**STARTDISP mode:integer**

Start display monitoring in mode "mode"

valid modes : NC

FNS

FCL

**STOP**

Abort PPE execution without appending answers (channel 0) to the answer file

See also : End

**TOKENIZE str:string**

Tokenize string "string" into individual items separated by semi-colons or spaces

See also : GetToken TokenStr TokCount

**TPAGET keyWord, infoVar**

Get static information from a named TPA in string format.

keyword = The keyword of the TPA to use

infoVar = The variable into which to store the information

See also : Psa TPAPut TPACGet TPACPut TPAREad

TPAWrite TPACRead TPACWrite

**TPAPUT keyWord, infoExpr**

Put static information to a named TPA in string format.

keyword = The keyword of the TPA to use

infoExpr = The expression to write to store the TPA

See also : Psa TPACGet TPACPut TPAREad

TPAWrite TPACRead TPACWrite TPAGet

**TPACGET keyWord, infoVar, confNum**

Get information from a named TPA for a specified conference in string format.

keyword = The keyword of the TPA to use

infoVar = The variable into which to store the information

confNum = The conference number for which to retrieve information

See also : Psa TPAPut TPACPut TPAREad

TPAWrite TPACRead TPACWrite TPAGet

**TPACPUT keyWord, infoExpr, confNum**

Put information to a named TPA for a specified conference in string format.

keyword = The keyword of the TPA to use

infoExpr = The expression to write to store the TPA

confNum = The conference number for which to retrieve information

See also : Psa TPAPut TPACGet TPACRead

TPAWrite TPACRead TPACWrite TPAGet

**TPAREAD keyWord, infoVar**

Get static information from a named TPA.

keyword = The keyword of the TPA to use

infoVar = The variable into which to store the information

See also : Psa TPAPut TPACGet TPACPut

TPAWrite TPACRead TPACWrite TPAGet

**TPAWRITE keyWord, infoExpr**

Put static information to a named TPA.

keyword = The keyword of the TPA to use

infoExpr = The expression to write to store the TPA

See also : Psa TPAPut TPACGet TPACPut TPACRead

TPACRead TPACWrite TPAGet

**TPACREAD keyWord, infoVar, confNum**

Get information from a named TPA for a specified conference.

keyword = The keyword of the TPA to use

infoVar = The variable into which to store the information

confNum = The conference number for which to retrieve information

See also : Psa TPAPut TPACGet TPACPut TPACRead

TPAWrite TPACWrite TPAGet

**TPACWRITE keyWord, infoExpr, confNum**

Put information to a named TPA for a specified conference.

keyword = The keyword of the TPA to use

infoExpr = The expression to write to store the TPA

confNum = The conference number for which to retrieve information

See also : Psa TPAPut TPACGet TPACPut TPACRead

TPAWrite TPACRead TPAGet

**VARADDR var1:multitype, var2:integer**

Assign the address (segment and offset) of "var1" to "var2"

See also : VarSeg VarOff MkAddr

**VAROFF var1:multitype, var2:integer**

Assign the offset address of "var1" to "var2"

See also : VarSeg VarAddr MkAddr

**VARSEG var1:multitype, var2:integer**

Assign the segment address of "var1" to "var2"

See also : VarOff VarOff MkAddr

## WAIT

Displays a PRESS ENTER TO CONTINUE? prompt

See also : More Delay Wait For

WAITFOR prompt:string, var:boolean, time:integer

Wait up to "time" seconds for the string "prompt", assigned TRUE to "var" if the string is found in the time specified or FALSE if the string is not found (WAIT FOR is a synonym)

See also : Wait

## WHILE...

□□□

Usage 1:

WHILE (exp:boolean) statement ...

While "exp" is true execute statement; when "exp" is false execute following statements

□□□

Usage 2:

```
WHILE (exp) DO
...
ENDWHILE
```

WHILE - While "exp" is true execute statement(s); when "exp" is false transfer control to the first statement following the ENDWHILE statement (requires DO [or THEN] after the expression)

ENDWHILE - Transfers control to the closest WHILE statement and marks the end of the WHILE loop (END WHILE is a synonym)

See also : If..Then For...Next

**WRUNET...**

Usage :

WRUNET node:integer, nodestat:string, nodeusername:string,newnodecity:string,  
newoptext:string,broadcasttext:string

Write information to USERNET.XXX for node "node", where "nodestat" is the new node status, "nodeusername" is the new node user name, "newnodecity" is the new node city, "newoptext" is the new node operation text, and "broadcasttext" is broadcast text

See also : RdUnet RdUsys WrUsys

**WRUSYS**

Writes (creates) a USERS.SYS file which can be used by a SHELLED application

See also : RdUnet RdUsys WrUnet

**BREAK**

Can be used to break out of a WHILE or FOR loop without the use of a GOTO statement

See also : Continue Quit

**QUIT**

Can be used to break out of a WHILE or FOR loop without the use of a GOTO statement (alias for BREAK)

See also : Continue Quit

**CONTINUE**

Can be used to abort the current iteration of a WHILE or FOR loop and resume with the next iteration of the loop □□□□

See also : Quit Break Loop

**LOOP**

Can be used to abort the current iteration of a WHILE or FOR loop and resume with the next iteration of the loop (alias for CONTINUE)

See also : Quit Break Continue

**FFLUSH chnl:integer**

flush a specified channels changes to disk

See also : FClose

**FSEEK chnl:integer, byte:integer, position:integer**

Position to any random location within a file

bytes is the number of bytes to move (+/-) relative to position

position is the base location to start the seek from

SEEK\_SET (0) for the beginning of the file

SEEK\_CUR (1) for the current file pointer location

SEEK\_END (2) for the end of the file

See also : FRewind

**FREAD chnl:integer, var:multitype, size:integer**

Read binary data from a file

var is the variable into which data should be read

size is the size of data to read into var (0 - 2048)

See also : FGet

**FWRITE chnl:integer, exp:multitype, size:integer**

Write binary data to a file

exp is the expression whose result should be written

size is the size of data to write to var

See also : FPut FPutPad FPutLn

**FDEFIN chnl:integer**

Specify a default input file channel (used to speed up file input)

See also : FOpen

**FDEFOUT chnl:integer**

Specify a default output file channel (used to speed up file output)

See also : FOpen

**FDGET var:multitype**

Default channel input statement: use the exact same arguments as FGet except a channel parameter (the channel specified by FDefIn is assumed)

See also : FDPut FDPutPad FDPutLn FDRead FDWrite

**FDREAD var:multitype, size:integer**

Default channel input statement: use the exact same arguments as FRead except a channel parameter (the channel specified by FDefIn is assumed)

See also : FPUT FPUTPAD FPUTLN FDGET FDWRITE

**FDPUT** str:string[, str:string...]

Default channel output statement: use the exact same arguments as FPUT except a channel parameter (the channel specified by FDefOut is assumed)

See also : FDRREAD FPUTPAD FPUTLN FDGET FDWRITE

**FDPUTLN** str:string[, str:string...]

Default channel output statement: use the exact same arguments as FPUTLN except a channel parameter (the channel specified by FDefOut is assumed)

See also : FDRREAD FPUTPAD FPUT FDGET FDWRITE

**FPUTPAD** str:string, len:integer

Default channel output statement: use the exact same arguments as FPUTPAD except a channel parameter (the channel specified by FDefOut is assumed)

See also : FDRREAD FPUTLN FPUT FDGET FDWRITE

**FDWRITE** exp:multitype, size:integer

Default channel output statement: use the exact same arguments as FWRITE except a channel parameter (the channel specified by FDefOut is assumed)

See also : FDRREAD FPUTPAD FPUT FDGET FPUTPAD

**REDIM**

Dynamically redimension an array at run-time

To use it you must declare the array in advance with the number subscripts desired.

This allows the compiler to perform it's standard error checking on subscripts. For example:

```
STRING s(1,1,1)
```

```
REDIM s,5,5,5
```

```
LET s(4,4,4) = "Hello, World!"
```

```
PRINTLN s(4,4,4)
```

If an attempt is made to redimension an array with a different number of dimensions, an error or warning (as appropriate) will be generated.

See also : Compilation Options

**APPEND** srcfile:string, destfile:string

Append the contents of one file to another file.

ie:

```
APPEND "SRCFILE","DSTFILE"
```

See also : Delete Copy Exist FileInf Rename

**COPY** srcfile:string, destfile:string

Copy the contents of one file to another file.

ie:

```
□□□
```

```
COPY "SRCFILE","DSTFILE"
```

See also : Delete Append Exist FileInf Rename

**LASTIN** conf: integer

Set the users last conference in value. It can be used during the logon process to force the user into a particular conference at start up (for example, from a logon script).

See also : ConfSel ConfSys ConfMw CurConf ConfExp CurConf  
ConfFlag ConfUnFlag Join ConfAlias ConfReg

**FLAG** filepath: string

Allow flagging files for download directly from a PPE.

ie:

FLAG "C:\PATH\FILENAME.ZIP" ; Or whatever file name desired

Note that FLAG does not attempt to honor restrictions in the FSEC and/or DLPATH.LST files. This allows you to flag up any file desired.

See also : FlagCnt Download

**DOWNLOAD** cmd: string

Downloading files from PPL.

ie:

□□□□

DOWNLOAD "CMD;CMD;CMD"

The string passed to DOWNLOAD is a list of commands in the same format as what a user would type after a D or DB command.

If a file name for download is specified here it must be downloadable according to the criteria established in the FSEC and DLPATH.LST files.

If it is necessary to download a file not normally available via the FSEC and/or DLPATH.LST files the FLAG statement may be used to force it into the list of files to download.

See also : Flag

**FLAGCNT()**

Return the number of files flagged for download.

See also : Flag

**WRUSYSDOOR** str: string

Write a USERS.SYS file with a TPA record for a DOOR application.

ie:

□□□□

WRUSYSDOOR "DOORNAME"

See also : WrUsys

**KBDSTRING** str: string

Stuff strings to the keyboard (just like KbdStuff except 'keystrokes' are echoed to the display)

See also : KbdBufSize PPLBufSize KbdFlush KbdStuff KbdFile  
KbdFileUsed MdmFlush KeyFlush KbdFlush

## **KBDFLUSH**

Flush the local keyboard buffer and any stuffed keystroke buffers. It takes no arguments.

See also : KbdBufSize PPLBufSize KbdFlush KbdStuff KbdFile  
KbdFileUsed MdmFlush KbdFlush KbdString

## **MDMFLUSH**

Flush the incoming modem buffer. It takes no arguments.

See also : KbdBufSize PPLBufSize KbdFlush KbdStuff KbdFile  
KbdFileUsed KeyFlush KbdFlush KbdString

## **KEYFLUSH**

Flush both the local buffers and the incoming modem buffer. It takes no arguments.

See also : KbdBufSize PPLBufSize KbdFlush KbdStuff KbdFile  
KbdFileUsed MdmFlush KbdFlush KbdString

## **ALIAS yesno:boolean**

Allow PPE control of whether or not the user is using an alias

See also : PSA(1) UserAlias

## **ALIAS() :BOOLEAN**

Return the users current ALIAS setting (TRUE = alias use on, FALSE = alias use off)

See also : TPAGet

## **CONFALIAS()**

Return TRUE if the current conference is configured to allow aliases v□□□

See also : ConfSel ConfSys ConfMw CurConf ConfExp CurConf  
ConfFlag ConfUnFlag Join LastIn ConfReg

## **USERALIAS() :BOOLEAN**

Return TRUE if the current user is allowed to use an alias

See also : Alias

## **LANG**

Change the language in use by the current user.

ie:

LANG langNum

See also : LangExt

## **ADJBYTES bytes:integer**



Adjust the users total and daily download

To subtract bytes use a negative number for bytes. To add bytes use a positive number.

See also : AdjDBytes AdjTBytes AdjTFiles

ADJDBYTES bytes:integer

Adjust the users daily download bytes.

To subtract bytes use a negative number for bytes. To add bytes use a positive number.

See also : AdjTBytes AdjTFiles AdjBytes

ADJTBYTES bytes:integer

Adjust the users total download bytes.

To subtract bytes use a negative number for bytes. To add bytes use a positive number.

See also : AdjDBytes AdjTFiles AdjBytes

ADJTFILES files:integer

Adjust the users total download files.

To subtract files use a negative number for files. To add files use a positive number.

See also : AdjDBytes AdjTBytes AdjBytes

PUTALTUSER

Put user information. It is merely an alias for PutUser and may be used anywhere that PUTUSER would be used.

See also : GetAltUser

GETALTUSER user:integer

Get the information for an alternate user.

It will fill the user variables with information from the specified user record as well as redirect user statements and functions.

ie:

GETALTUSER userRecordNumber

If an attempt is made to get a record number that doesn't exist, the user functions will revert to the current user and the user variables will be invalidated as though no GetUser/GetAltUser statement had been issued (though they will continue to maintain any value held). PutUser/PutAltUser should be issued to commit any variable changes to the user record. Additionally, there is at least one statement that will not affect alternate users: AdjTime. It is restricted to the current user online. Also, if the alternate user is online, changes to the record won't take hold until after the user has logged off. Also, if there is not enough memory available (primarily for the last message read pointers) this statement will fail.

See also : PutAltUser

CURUSER() : INTEGER

Determine what users information, if any, is available via the user variables. It takes no arguments and returns one of the following values:

NO\_USER (-1) - User variables are currently undefined

CUR\_USER (0) - User variables are for the current user

Other - The record number of an alternate user for whom user variables are defined

## Compilation Directives

;\$INCLUDE:

Source files can be included from other source files. This is accomplished with a compiler directive in a comment like this:

;\$INCLUDE:FILESPEC.EXT

Note that the first character need not be the semi-colon. An apostrophe ['] or asterisk [\*] may also be used where appropriate.

This allows you to include subroutines from a source code 'library'. This should help in starting reusable code fragments. When the file is included, it is compiled as though it were in the main source file. For example:

FOO.INC

-----

:subroutine

PRINTLN "Hello!"

RETURN

FOO.PPS

-----

PRINTLN "Running FOO.PPS"

GOSUB subroutine

END ' This line is important!

\*\$INCLUDE:FOO.INC

Note the use of END in FOO.PPS. It is important in this case to ensure that you don't accidentally run subroutine twice by just falling through to it.

□□□

;\$USEFUNCS

Allow you to specify that you want to use user-defined functions and procedures.

This makes the code more flexible by allowing you to put your main code (code between Begin and End) anywhere in your program (usefull if you have to include some user-defined functions with an include directive at the beginning of your code)

## @Xnn Color Codes

PCBoard defines some macros to change color if user has ANSI capabilities.

If user doesn't support ANSI, PCB just skip those codes. It is a good way to colorize your screens and prompt because you don't have to check the ANSI flag, PCB deal with it automatically.

Color codes are made of 4 bytes. the first byte is used to enter in macro mode. The second indicates that we want to pass a color code. Next byte is the background color and the last is the foreground color.

BackGround codes :

- 0 - Black
- 1 - Blue
- 2 - Green
- 3 - Cyan
- 4 - Red
- 5 - Magenta
- 6 - Brown
- 7 - LightGray
- 8 - Black
- 9 - Blinking foreground on Blue background
- A - Blinking foreground on Green background
- B - Blinking foreground on Cyan background
- C - Blinking foreground on Red background
- D - Blinking foreground on Magenta background
- E - Blinking foreground on Brown background
- F - Blinking foreground on LightGray background

Foreground codes :

- 0 - Black
- 1 - Blue
- 2 - Green
- 3 - Cyan
- 4 - Red
- 5 - Magenta
- 6 - Brown
- 7 - LightGray
- 8 - DarkGray
- 9 - LightBlue
- A - LightGreen
- B - LightCyan
- C - LightRed
- D - LightMagenta
- E - Yellow
- F - White

GO ...

See : Go Sub Go To

... TO

See : Go To For...To...Next

PROCEDURE

[DECLARE] PROCEDURE proc( [TYPE var1 [VAR] ],...)

The keyword PROCEDURE is used in conjunction with the keyword DECLARE in the declaration of a user-defined procedure...

The optionnal VAR keyword tells PPL to copy the contents of the local variable back into the original variable when the procedure is finished processing.

The compiler directive ";\$USEFUNCS" may be used in order to allow your main code (code between BEGIN & END) to be located anywhere within your file...

Example :

□□□

```
;$USEFUNCS
DECLARE PROCEDURE proc1(INTEGER i, STRING str, VAR INTEGER j)
  INTEGER int1,int2
  STRING s1
  BEGIN
    int1 = 1
    int2 = 2
    s1 = "HELLO"
    proc1(int1,s1,int2)
    PRINTLN "int1 =",int1
    PRINTLN "int2 =",int2
    PRINTLN "s1 =",s1
  END
  PROCEDURE proc1(INTEGER i,STRING str, VAR INTEGER j)
    PRINTLN "I'm in proc1"
    LET i = 30
    LET j = 15
  ENDPROC
```

See also : Function

## FUNCTION

[DECLARE] FUNCTION func(TYPE var1, ...) TYPE

The keyword PROCEDURE is used in conjunction with the keyword FUNCTION in the declaration of a user-defined function...

The compiler directive ";\$USEFUNCS" may be used in order to allow your main code (code between BEGIN & END) to be located anywhere within your file...

The big difference between functions and procedures is that functions return a value. To assign the return value inside a function, simply use the name of the function just like a variable. You do not need to declare this variable, it is done for you. When the function is finished executing the value in the return variable will be made available as the return value.

Note that function calls can take place anywhere inside of an expression as well as stand-alone statements. This can be useful in situations when the functions return value is not needed, but the functions side effects are.

Example :

□□□

```
;$USEFUNCS
DECLARE FUNCTION Xto_theY(INTEGER x, INTEGER y) INTEGER
DECLARE FUNCTION square(INTEGER x) INTEGER
FUNCTION Xto_theY(INTEGER x, INTEGER y) INTEGER

  INTEGER i
  Xto_theY = x
  for i = 2 to y
    Xto_theY = Xto_theY * x
  next i
```

□□□

```
ENDFUNC
FUNCTION square(INTEGER x) INTEGER
  square = x * x
ENDFUNC
```

```
BEGIN
PRINTLN "4 to the 3rd power = ",Xto_theY(4,3)
PRINTLN "4 squared = ",square(4)
END
See also : Procedure
```

**DECLARE**

See : Function Procedure

**SELECT CASE**

```
SELECT CASE var
  CASE const1 [, const2..const3 [, expr ] ]
  .
  .
  .
  DEFAULT (or CASE ELSE)
END SELECT
```

The SELECT CASE construct allows you to organize multiple execution paths into a clean, easy to read format.

Each CASE contains one or more expressions delimited by commas. Each CASE expression is compared to the SELECT CASE expression logically. If it is TRUE the body of the CASE is executed. The CASE body can contain as many statements as needed, including function calls. Note that ranges include the boundry values. eg 11..35 includes 11 and 35.

The DEFAULT case will be executed when none of the other CASE expressions evaluate to TRUE. For BASIC programmers, the CASE ELSE is also valid instead of DEFAULT.

Example :

```
INTEGER i
LET i = 3
SELECT CASE (i)
CASE 1
  PRINTLN "i = 1"
  proc1(i)
CASE 2,6,10
  PRINTLN "i is 2,6 or 10"
  proc2(i)
CASE 3
  PRINTLN "i is 3"
CASE 11..35
  PRINTLN "i is between 11 and 35"
CASE 50..60,64,78
```

```

PRINTLN "I is between 50 and 60 or 64 or 78
DEFAULT
PRINTLN "i is not a valid value"
END SELECT

```

## DBASE III FUNCTIONS & STATEMENTS

PPL provide a load of functions & statements to access DBase III files...

### STATEMENTS

```

DCREATE channel,name,exclusive,fieldInfo ; create DBF file
DOPEN channel,name,exclusive ; open DBF file
DCLOSEchannel ; close DBF file
DSETALIAS channel,name ; set DBF alias
DPACK channel ; pack DBF file
DLOCK channel ; lock DBF file
DLOCKFchannel ; lock DBF file (same as DLOCK)
DLOCKRchannel,recno; lock a record
DLOCKGchannel,recnos,count ; lock a group of records
DUNLOCK channel ; unlock any current locks
DNCREATE channel,name,expression; create NDX file
DNOPENchannel,name ; open NDX file
DNCLOSE channel,name ; close NDX file
DNCLOSEALL channel ; close all NDX files
DNEW channel ; start a new record
DADD channel ; add the new record
DAPPEND channel ; append a blank record
DTOP channel ; go to top record
DGO channel,recno; go to specific record
DBOTTOM channel ; go to bottom record
DSKIP channel,number ; skip +/- a number of records
DBLANKchannel ; blank the record
DDELETE channel ; delete the record
DRECALL channel ; recall the record
DTAG channel,name ; select a tag
DSEEK channel,expression; string or double
DFBLANK channel,name ; blank a named field
DGET channel,name,var ; get a value from a named field
DPUT channel,name,expression; put a value to a named field
DFCOPYchannel,name,channel,name ; copy a field to a field
DCLOSEALL; close all DBF files

```

### FUNCTIONS

—————□□

```

DRECCOUNT (channel) (INTEGER) ; return the number of records
DRECNO (channel) (INTEGER) ; return the current record number
DBOF (channel) (BOOLEAN) ; return the begin of file status
DEOF (channel) (BOOLEAN) ; return the end of file status
DDELETED (channel) (BOOLEAN) ; return the deleted flag
DCHANGED (channel) (BOOLEAN) ; return the changed flag
DFIELDS (channel) (INTEGER) ; return count of fields

```

DNAME(channel,number) (STRING) ; return name of numbered field  
 DTYPE(channel,name) (STRING) ; return type of named field  
 DLENGTH (channel,name) (INTEGER) ; return length of named field  
 DDECIMALS (channel,name) (INTEGER) ; return decimals of named field  
 DSELECT (alias)(INTEGER) ; returns channel associated with alias  
 DSEEK(channel,expression) (INTEGER) ; returns error status ( 0|1 )  
 ; or seek success (0 = Error  
 ; 1 = success, 2 = following record  
 ; 3 = end of file )  
 DGETALIAS (channel) (STRING) ; return the current alias  
 DCLOSEALL (BOOLEAN) error status ; close all DBF files  
 DOPEN(channel,name,exclusive)(BOOLEAN) error ; open DBF file  
 DCLOSE (channel) (BOOLEAN) error status ; close DBF file  
 DSETALIAS (channel,name) (BOOLEAN) error status ; set DBF alias  
 DPACK(channel) (BOOLEAN) error status ; pack DBF file  
 DLOCK(channel) (BOOLEAN) error status ; lock DBF file  
 DLOCKR (channel,recno) (BOOLEAN) error status ; lock a record  
 DUNLOCK (channel) (BOOLEAN) error status ; unlock any current locks  
 DNOPEN (channel,name) (BOOLEAN) error status ; open NDX file  
 DNCLOSE (channel,name) (BOOLEAN) error status ; close NDX file  
 DNCLOSEALL(channel) (BOOLEAN) error status ; close all NDX files  
 DNEW (channel) (BOOLEAN) error status ; start a new record  
 DADD (channel) (BOOLEAN) error status ; add the new record  
 DAPPEND (channel) (BOOLEAN) error status ; append a blank record  
 DTOP (channel) (BOOLEAN) error status ; go to top record  
 DGO (channel,recno) (BOOLEAN) error status ; go to specific record  
 DBOTTOM (channel) (BOOLEAN) error status ; go to bottom record  
 DSKIP(channel,number) (BOOLEAN) error status ; skip +/- a number of records  
 DBLANK (channel) (BOOLEAN) error status ; blank the record  
 DDELETE (channel) (BOOLEAN) error status ; delete the record  
 DRECALL (channel) (BOOLEAN) error status ; recall the record  
 DTAG (channel,name) (BOOLEAN) error status ; select a tag  
 DFBLANK (channel,name) (BOOLEAN) error status ; blank a named field  
 DGET (channel,name) (STRING) ; get a value from a named field  
 DPUT (channel,name,expression)(BOOLEAN) error ; put a value to a named field  
 DFCOPY (channel,name,channel,name)(BOOLEAN) error; copy a field to a field  
 DERR (channel) (BOOLEAN) ; return error flag for channel  
 DERRMSG (errcode) (STRING) ; returns last DBase error text.

CAUTION: DBase functions that return the error status actually return !ERROR. This is to provide a consistent way to express an error in an expression. For example:

```

if ( DERR (...)) println "Error!" ;DERR returns 1 or TRUE on an error.
if (!DSEEK(...)) println "Seek failed!" ;DSEEK returns 0 or FALSE on an error.
  
```

NOTE: Where file names are used, file extensions are optional. Any extension you provide will be ignored. DBF and IDX are the default.

channel : Any value between 0 and 7

name: Char string

exclusive: Integer (TRUE || FALSE)

fieldinfo: Character string with the following fields

1- Field name

## 2- Field Type

C = Character

N = Numeric

F = Floating Point

D = Date

L = Logical

M = Memo

## 3- Field Length

## 4- Decimal (number of digits to the right of the decimal)

EXAMPLE:

```
string finfo(3)
let finfo(0) = "First,C,20,0"
let finfo(1) = "Last,C,20,0"
let finfo(2) = "Phone,C,15,0"
```

NOTE: multiple fields require an array of strings. 1 string for each field.  
expression : Character String with search criteria on a field.

EXAMPLE:

```
string expr
let expr = "First"
recno,recnos,number,count : integers
```

## DRIVESPACE ()

Usage: DRIVESPACE(drivespec) Return Val: Amount of drivespace left of drive drivespec.

Example:

```
integer left
left = DRIVESPACE("c:\")
println "There are ",tostring(left)," bytes on drive C."
```

drivespec must include at least a drive letter AND a colon. Backslash is optional. With directory specs it will work also. valid drivespecs are C: C:\ C:\PCB These will all return drivespace left on drive

\*NOTE On LANTASTIC this will return drivespace of the current physical drive even if it is mapped as a directory. □□□□

See also : FileInf Delete

## SETLMR

SETLMR conf#,msg#

Set the last read pointers for the specified conference.

Example :

```
Integer conf,msg
if(newuser == TRUE) then ; If new user
  while(conf < HICONFNUM() ) DO; set all LMR's to
    join conf ; HI_MSG - 10
    SETLMR conf,HIMSGNUM()-10
    INC conf
  Endwhile
endif
```



If conf# is greater than the number of actual conferences conf# will default to the highest conference number. If msg# is greater than the highest message number in that conference, it will default to the highest message number in that conference. This could be used to set a new users mesg pointers to recent messages so they aren't replying to 3 years old messages. A useful feature would be to get the high conference number.

See also : HiConfNum HiMsgNum ActMsgNum LoMsgNum

## **SETENV**

SETENV env\_var

Set an environment variable

Example:

string s

let s = "stan=Stan"

SETENV s

.

.

.

if (GETENV("stan") = "Stan") then

Println "Environment variable stan = Stan "

Endif

Used to set DOS environment variable. This can be used for PPE's to communicate with other PPE's. The environment variables set within PPL will NOT be available to DOORs. Environment variables set within PPL will be cleared the next time PCBoard recycles through DOS.

See also : GetEnv, Shell, Call

## **FCLOSEALL**

Closes all file channels

Example:

fopen 1, "Autoexec.bat"

fopen 2, "Config.sys"

.

.

.

fcloseall

See also : FOpen FClose FCreate FAppend FRewind FNext

## **FNEXT()**

Returns an available file channel. -1 when none are available.

Example: 8□□□

println "The next available file channel is ",FNEXT()

FNEXT was created in order to better support code libraries made possible by functions and procedures. File channel numbers can now be determined at runtime. CAUTION: Until you actually OPEN a file FNEXT will return the same value over and over.

chan1 = FNEXT() chan2 = FNEXT() WRONG! chan1 will equal chan2

another gotcha: FOPEN FNEXT(),blah blah

There is no way to determine what channel was used to open the file!

Here's an example of how it should be used:

```
chan1 = FNEXT() FOPEN  chan1,...
```

```
chan2 = FNEXT() FOPEN  chan2,...
```

See also : FOpen FClose FCreate FAppend FRewind FCloseAll

### **HICONFNUM()**

Returns the highest conference number available on the board

Example: H□□□

integer i

```
println "The highest conference available is ",HICONFNUM()
```

If a conference is installed it will be counted, even if it is not being used.

See also : SetLmr HiMsgNum ActMsgNum LoMsgNum

### **OUTBYTES()**

Returns the number of bytes waiting in the modems output buffer Not available in local mode.

Example:

integer i

```
println "Bytes waiting in the modem output buffer ",OUTBYTES()
```

See also : InBytes MGetByte SendModem MPrint MPrintLn MdmFlush

### **INBYTES()**

Returns number of bytes waiting in the modem input buffer Not available in local mode.

Example:

integer i

```
Println "Bytes in modem input buffer = ",INBYTES()
```

See also : OutBytes MGetByte SendModem MPrint MPrintLn MdmFlush

### **PCBMAC()**

Returns a BIGSTR containing the expanded text of a PCB MACRO

Example:

integer i,j, res

```
j = PCBMAC("@Timelimit@")
```

```
i = PCBMAC("@Timeused@")
```

```
res = j-i
```

```
println "You have ",res, " Minutes left"
```

PCB MACROS not supported:

@automore@ @beep@ @clreol@ @cls@ @delay@ @more@ @pause@ @poff@

@pon@ @pos@

@qoff@ @qon@ @wait@ @who@ @x@

### **CRC32()**

```
UNSIGNEDTYPE = CRC32(CRC_FILE,"C:\AUTOEXEC,BAT")
```

```
CRC32(CRC_STR,"Stan is super cool")
```

Returns an UNSIGNED value of the CRC of a file or string.

Example:

```
Println "CRC on the file AUTOEXEC.BAT is", CRC32(CRC_FILE,"C:\AUTOEXEC.BAT")
The constants CRC_FILE and CRC_STR are the same as TRUE and FALSE. They were
added to make it easier to see if a file or string was being processed.
```

### ACTMSGNUM()

Returns number of active messages in current conference

Example:

```
integer i
println "There are ",ACTMSGNUM()," messages in conference ",CURCONF()
See also : Join HiConfNum LoMsgNum HiMsgNum
```

### STACKLEFT()

Returns the number of bytes left on the \*system\* stack.

Example:

```
println "There are ",STACKLEFT()," bytes left on the stack"
;recursive call support
function stan(integer i,string str)
  if(stackleft() > STK_LIMIT) stan(i,"Debra")
endfunc
```

This function was added to support nested and recursive function calls. Since function calls take a lot of stack space. As of now only about 26 nested or recursive calls can eat up the stack. This lets the programmer know when he/she is running out of stack space as to avoid a runtime error. Both recursion and nested function calls should check this value if more than just a few calls are to be executed. "□□□"

See also : StackErr StackAbort

### STACKERR()

Returns a boolean value which indicates a stack error has occurred if TRUE.

Example:

```
if (STACKERR()) then
println "An error has occurred "
end
endif
```

Because of the limited stack space for recursive function calls this function was created. It allows the programmer to determine if a stack error has occurred while executing a PPE. This is in addition to the error message when the error occurs. The only way this will be useful is if the PPL programmer has told PPL not to abort on stack errors. PPL will \*not\* allow system memory to be corrupted when stack space has been exhausted. It will disallow any more function calls when there is no system stack space left. \*Note nested/recursive procedure calls are limited by heap space, not stack space.

See also : StackLeft StackAbort

### STACKABORT

STACKABORT TRUE | FALSE

Example:

```
STACKABORT TRUE ;Default is TRUE
```

This allows the programmer to tell the runtime module to try its best to continue executing after a stack error has occurred. If it is passed FALSE, it will abort execution after a stack error. If it is passed TRUE the PPE will continue to run. «□□□ CAUTION! If you continue to execute after a stack error, program execution will be unpredictable. PPL will not allow system memory to be corrupted because of a stack error.

See also : StackLeft StackErr

## **DNEXT()**

Returns an available dbase file channel. -1 when none are available.

Example:

```
println "The next available dbase file channel is ",DNEXT()
```

DNEXT was created in order to better support code libraries made possible by functions and procedures. File channel numbers can now be determined at runtime. CAUTION! Until you actually OPEN a file DNEXT will return the same value over and over.

chan1 = DNEXT() chan2 = DNEXT() WRONG! chan1 will equal chan2

another gotcha: FOPEN DNEXT(),...

There is no way to determine what channel was used to open the file!

Here's an example of how it should be used:

```
chan1 = DNEXT() FOPEN chan1,...
```

```
chan2 = DNEXT() FOPEN chan2,...
```

See also : DBase functions

## **TODDATE (DATE date)**

Converts any PPL type to DDATE type.

Example:

```
DATE d1
```

```
DDATE d2
```

```
d2 = TODDATE(d1)
```

This is an explicit type conversion. Implicit type conversion is also valid as with all other PPL types.

See also : Date DDate data type MkDate

## **FREALTUSER**

Since only one GETALTUSER can be active at one time, FREALTUSER can allow other processes which need to use GETALTUSER (such as the MESSAGE command) to do so.

Example:

```
string name
```

```
GETALTUSER 20
```

```
name = U_NAME()
```

```
FREALTUSER
```

```
message 1,name,...
```

See also : GetAltUser GetUser PutAltUser PutUser

## **ACCOUNTING**

Several functions and statements have been added to support PCBoard accounting features. Also, many system constants have been added to make using these functions and statements easier for the PPL programmer.

## CONSTANTS

---

There are three new functions which return accounting information. Each function will return a value based on a parameter passed to it. Several constants have been added to make accessing these values easier. The following list details these constants and what they are used for.

for use with PCBACCOUNT() only!

val const Associated value

- 
- 0 NEWBALANCE Credits Given to a new user account
  - 1 CHRG\_CALL Credits charged for a call
  - 2 CHRG\_TIME Credits charged for time used (in minutes)
  - 3 CHRG\_PEAKTIME Credits charged for peak time used
  - 4 CHRG\_CHAT Credits charged for chat session
  - 5 CHRG\_MSGREAD Credits charged for reading a message
  - 6 CHRG\_MSGCAP Credits charged for capturing a message
  - 7 CHRG\_MSGWRITE Credits charged for writing a message
  - 8 CHRG\_MSGECHOED Credits charged for writing an echoed message
  - 9 CHRG\_MSGPRIVATE Credits charged for writing a private message
  - 10 CHRG\_DOWNFILE Credits charged for downloading a file
  - 11 CHRG\_DOWNBYTES Credits charged for downloading bytes
  - 12 PAY\_UPFILE Credits given for uploading a file
  - 13 PAY\_UPBYTES Credits given for uploading bytes
  - 14 WARN\_LEVEL Credit threshold for low credit warning

The following are for use with PCBACCSTAT() only!

val constant Associated value

- 
- 0 ACC\_STAT Returns status of the "Enable Accounting" switch in the PWRD file. 0=Accounting disabled (N), 1=Tracking (T), and 2=Enabled (Y).
  - 1 ACC\_TIME The amount of ADDITIONAL units to charge per minute while in the current conference.
  - 2 ACC\_MSGR The amount to charge in ADDITION for each message read in the current conference.
  - 3 ACC\_MSGW The amount to charge in ADDITION for each message entered in the current conference.

The following are for use with ACCOUNT(), ACCOUNT and RECORDUSAGE only!

val constant description example

- 
- 0 START\_BAL Users starting balance.
  - 1 START\_SESSION Users starting balance for this session
  - 2 DEB\_CALL Debit for this call
  - 3 DEB\_TIME Debit for time on

- 4 DEB\_MSGREAD Debit for reading message
- 5 DEB\_MSGCAP Debit for capturing a message
- 6 DEB\_MSGWRITE Debit for writing a message
- 7 DEB\_MSGECHOED Debit for echoed message
- 8 DEB\_MSGPRIVATE Debit for writing private message
- 9 DEB\_DOWNFILE Debit for downloading a file
- 10 DEB\_DOWNBYTES Debit for downloading bytes
- 11 DEB\_CHAT Debit for chat
- 12 DEB\_TPU Debit for TPU
- 13 DEB\_SPECIAL Debit special
- 14 CRED\_UPFILE Credit for uploading a file
- 15 CRED\_UPBYTES Credit for uploading bytes
- 16 CRED\_SPECIAL Credit special
- 17 SEC\_DROP Security level to drop to at 0 credits

This group of constants can be used to access or modify user account information using the ACCOUNT() function, ACCOUNT statement and/or RECORDUSAGE. The ACCOUNT() function returns the current value and the ACCOUNT statement is used to modify a value. Record usage also modifies a value with more information stored in a usage file.

See also : Account RecordUsage

ACCOUNT(INTEGER field)

ACCOUNT INTEGER field, INTEGER value

1) the ACCOUNT() function

Returns amount of credits charged for services corresponding to the field parameter.

Example:

```
println "You have been charged ",ACCOUNT(DEB_CHAT)," for chat"
```

field is the field number to access (1-14) or using DEB\_ constants

See the Accounting section for a list of constants which can be used with the ACCOUNT() function.

The account function is used to retrieve account information from PCBoard. These are the constants which can be used with the ACCOUNT() function.

2) The ACCOUNT Statement

field is a value between 0-14. Using system constants is recommended. value is the amount of credits to add or subtract to field the field

Example:

```
ACCOUNT DEB_CHAT,10
```

The ACCOUNT statement is used to modify accounting information for a user. This statement will simply modify a debit value whereas the RECORDUSAGE will do the same thing as well as record information in the accounting file.

The valid constants for this statement are the same as those used for the ACCOUNT() Function. See the Accounting section for a list of those consts

See also : Accounting RecordUsage

□

RECORDUSAGE ...

Usage : RECORDUSAGE INTEGER field,STRING desc1,STRING desc2,DWORD unitcost,INTEGER value

Example:

```
RECORDUSAGE DEB_CHAT,"Debit for chat", "Using PPE",10,10
```

field is the field number to access (using DEB\_... consts) descr1 is the description of the charge descr2 is a subdescription of the charge unitcost is the cost per unit value is the number of units

Recordusage will update debit values in PCBoard as well as record descriptions and other information in an accounting file.

Valid values for the field parameter are 2-16. The constants corresponding with these values (DEB\_???) could and should be used here. (see the Accounting section for a list of consts)

See also : Accounting Account PCBAccount PcbAccStat

### PCBACCOUNT(INTEGER field)

Returns what PCBoard will charge a user for a certain activity. These are values the SysOp assigns in PCBsetup when accounting is configured and enabled.

Example: C□□□

```
println "You will be charged ",PCBACCOUNT(CHRG_CHAT)," for chat"
```

Valid values for the field parameter are 0-14. Use of the corresponding constants is encouraged. (see the Accounting section)

See also : Accounting Account RecordUsage PcbAccStat

### PCBACCSTAT(INTEGER field)

Returns value in status field

Example:

```
PRINTLN "Multiplier for credits is ",PCBACCSTAT(ACC_STAT)
```

This function can and should be used in conjunction with the ACC\_??? constants as the field parameter. Valid values for field are 0-3. (see the Accounting section)

See also : Accounting Account RecordUsage RecordUsage

### MESSAGE HEADER FIELD ACCESS CONSTANTS

Field Value	hex	dec	Field Description
HDR_ACTIVE	0x0E	14	Message active flag field
HDR_BLOCKS	0x04	4	Number of 128 byte blocks in message
HDR_DATE	0x05	5	Date message was written
HDR_ECHO	0x0F	15	Echoed message flag
HDR_FROM	0x0B	11	Who the message is from
HDR_MSGNUM	0x02	2	Message number
HDR_MSGREF	0x03	3	Reference message
HDR_PWD	0x0D	13	Message password
HDR_REPLY	0x0A	10	Message reply flag
HDR_RPLYDATE	0x08	8	Reply message date
HDR_RPLYTIME	0x09	9	Reply message time
HDR_STATUS	0x01	1	Message status
HDR_SUBJ	0x0C	12	Message subject

HDR\_TIME 0x06 6Message time  
HDR\_TO 0x07 7Who the message is to.

These constants are for use with SCANMSGHDR(conf\_num,start\_msg,field,text) in the FIELD parameter.

See also : ScanMsgHdr

SCANMSGHDR(conf,start\_msg,field,test)

Returns the first message number in the message base which matches the search criteria.

Example:

integer msgno

msgno = SCANMSGHDR(0,1,HDR\_TO,"Stan")

This function can be used to scan PCBoard message bases for certain information. All fields in the standard header can be searched. There are 15 fields in the standard header. Valid values for field are 1-15. See the list of constants related to this function.

See also : MsgToFile Message Header Consts

MSGTOFILE conf,msg\_no,filename

Writes a message into a file.

Example:

;Using SCANMSGHDR to search for a message

MSGTOFILE 0,200,"d:\msg1.txt"

DISPFILE "D:\msg1.txt",DEFS

This statement will take the given message and write it to a text file. The file's first 15 lines will contain standard header information. (One field per line) The headers are formatted to make parsing easier. The 16th line will state how many extended headers are present. The following line(s) will contain extended headers. (one per line) Finally, after the extended headers, will be a line containing "Message body:". Everything after that is the body of the message. 3□□□

See also : ScanMsgHdr, DispFile, HDR\_... Consts



QWKLIMITS field,limit

QWKLIMITS(field)

### 1) The QWKLIMITS Statement

This statement allows the PPL programmer to modify a users QWK limits. Four fields can be modified with their statement.

Important note. You *\*must\** use GET USER AND PUTUSER with these QWK functions.

Example:

```
GETUSER
QWKLIMITS MAXMSGs,500
PUTUSER
```

- Max Messages: Maximum messages allowed in a qwk packet

Note: If you specify a number higher than that contained in PCBSETUP the values in PCBSETUP will be used.

- Max Messages per Conference: Maximum messages allowed in a qwk packet per conference.

Note: If you specify a number higher than that contained in PCBSETUP the values in PCBSETUP will be used.

- Personal Attach Limit: Maximum number of bytes in attached files for the user.

- Public Attach Limit: Maximum number of bytes in attached files for the user.

Four constants have been defined to identify the FIELD value.

Constant	Value	Field
MAXMSGs	0	Max messages per qwk packet
CMAXMSGs	1	Max Messages per conference
ATTACH_LIM_U	2	Personal attach bytes limit
ATTACH_LIM_P	3	Public attach bytes limit

### 2) The QWKLIMITS() function

This functions returns the values contained in the users QWK configuration. The same constants used in the QWKLIMITS statements can be used with the field parameter.

Example:

```
GETUSER
PRINTLN QWKLIMITS(MAXMSGs)
```

## MESSAGE HEADER FIELD ACCESS CONSTANTS

Field Value	hex	dec	Field Description
-----			
HDR_ACTIVE	0x0E	14	Message active flag field
HDR_BLOCKS	0x04	4	Number of 128 byte blocks in message
HDR_DATE	0x05	5	Date message was written
HDR_ECHO	0x0F	15	Echoed message flag
HDR_FROM	0x0B	11	Who the message is from
HDR_MSGNUM	0x02	2	Message number

HDR\_MSGREF 0x03 3Reference message  
 HDR\_PWD0x0D 13Message password  
 HDR\_REPLY 0x0A 10Message reply flag  
 HDR\_RPLYDATE0x08 8Reply message date  
 HDR\_RPLYTIME0x09 9Reply message time  
 HDR\_STATUS 0x01 1Message status  
 HDR\_SUBJ 0x0C 12Message subject  
 HDR\_TIME 0x06 6Message time  
 HDR\_TO 0x07 7Who the message is to.

These constants are for use with SCANMSGHDR(conf\_num,start\_msg,field,text) in the FIELD parameter.

SCANMSGHDR(conf,start\_msg,field,test)

Returns the first message number in the message base which matches the search criteria.

□□□

Example:

integer msgno msgno = SCANMSGHDR(0,1,HDR\_TO,"Stan")

This function can be used to scan PCBoard message bases for certain information. All fields in the standard header can be searched. There are 15 fields in the standard header. Valid values for field are 1-15. See the list of constants related to this function.

See also : MsgToFile

MSGTOFILE conf,msg\_no,filename

Writes a message into a file.

Example:

; Using SCANMSGHDR to search for a message MSGTOFILE 0,200,"d:\msg1.txt"  
 DISPFILE "D:\msg1.txt",DEFS

This statement will take the given message and write it to a text file. The file's first 15 lines will contain standard header information. (One field per line) The headers are formatted to make parsing easier. The 16th line will state how many extended headers are present. The following line(s) will contain extended headers. (one per line) Finally, after the extended headers, will be a line containing "Message body:". Everything after that is the body of the message.

See also : ScanMsgHdr, DispFile, HDR\_... Consts

QWKLIMITS field,limit

QWKLIMITS(field)

## 1) The QWKLIMITS Statement

This statement allows the PPL programmer to modify a users QWK limits. Four fields can be modified with their statement.

Important note. You *\*must\** use GET USER AND PUTUSER with these QWK functions.

Example:

GETUSER QWKLIMITS MAXMSGs,500 PUTUSER

- Max Messages: Maximum messages allowed in a qwk packet

\* Note: If you specify a number higher than that contained in PCBSETUP the values in PCBSETUP will be used.

- Max Messages per Conference: Maximum messages allowed in a qwk packet per conference.

\* Note: If you specify a number higher than that contained in PCBSETUP the values in PCBSETUP will be used.

- Personal Attach Limit: Maximum number of bytes in attached files for the user.

- Public Attach Limit: Maximum number of bytes in attached files for the user.

Four constants have been defined to identify the FIELD value.

Constant	Value	Field
MAXMSGs	0	Max messages per qwk packet
CMAxMSGs	1	Max Messages per conference
ATTACH_LIM_U	2	Personal attach bytes limit
ATTACH_LIM_P	3	Public attach bytes limit

## 2) The QWKLIMITS() function

This functions returns the values contained in the users QWK configuration. The same constants used in the QWKLIMITS statements can be used with the field parameter.

Example: GETUSER PRINTLN QWKLIMITS(MAXMSGs)