

NNN		NNN	MMM	MMM	LLL	
NNN		NNN	MMM	MMM	LLL	
NNN		NNN	MMM	MMM	LLL	
NNN		NNN	MMMMMM	MMMMMM	LLL	
NNN		NNN	MMMMMM	MMMMMM	LLL	
NNN		NNN	MMMMMM	MMMMMM	LLL	
NNNNNN		NNN	MMM	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN		NNNNNN	MMM		MMM	LLL
NNN		NNNNNN	MMM		MMM	LLL
NNN		NNNNNN	MMM		MMM	LLL
NNN		NNN	MMM		MMM	LLL
NNN		NNN	MMM		MMM	LLL
NNN		NNN	MMM		MMM	LLL
NNN		NNN	MMM		MMM	LLLLLLLLLLLLLLLL
NNN		NNN	MMM		MMM	LLLLLLLLLLLLLLLL
NNN		NNN	MMM		MMM	LLLLLLLLLLLLLLLL

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```

NN      NN      PPPPPPP      AAAAA      MM      MM      AAAAA      CCCCCCCC
NN      NN      PPPPPPP      AAAAA      MM      MM      AAAAA      CCCCCCCC
NN      NN      PP        PP      AA      AA      MMMM    MMMM    AA      AA      CC
NN      NN      PP        PP      AA      AA      MMMM    MMMM    AA      AA      CC
NNNN     NN      PP        PP      AA      AA      MM     MM     AA      AA      CC
NNNN     NN      PP        PP      AA      AA      MM     MM     AA      AA      CC
NN      NN      NN      PPPPPPP      AA      AA      MM     MM     AA      AA      CC
NN      NN      NN      PPPPPPP      AA      AA      MM     MM     AA      AA      CC
NN      NNNN     PP        AAAAAAAAAA    MM     MM     AAAAAAAAAA    CC
NN      NNNN     PP        AAAAAAAAAA    MM     MM     AAAAAAAAAA    CC
NN      NN      PP        AA      AA      MM     MM     AA      AA      CC
NN      NN      PP        AA      AA      MM     MM     AA      AA      CC
NN      NN      PP        AA      AA      MM     MM     AA      AA      CC
NN      NN      PP        AA      AA      MM     MM     AA      AA      CCCCCCCC
NN      NN      PP        AA      AA      MM     MM     AA      AA      CCCCCCCC

```

```

MM      MM      AAAAA      RRRRRRR
MM      MM      AAAAA      RRRRRRR
MMMM     MMMM    AA      AA      RR      RR
MMMM     MMMM    AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RRRRRRR
MM      MM      AA      AA      RRRRRRR
MM      MM      AAAAAAAAAA    RR      RR
MM      MM      AAAAAAAAAA    RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR
MM      MM      AA      AA      RR      RR

```

NP  
VC  
.....

Version: 'V04-000'

```
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```

MACRO NPADFS

NPARSE function code definitions

```
NPAS_IMAGE = 0  
NPAS_WORD = 1  
NPAS_MASK = 2  
NPAS_BYTE = 3  
NPAS_EOM = 4  
NPAS_NULL = 5  
NPAS_SBEXP = 6  
NPAS_ERROR = 7  
NPAS_MATCH = 8  
NPAS_LOOK = 9  
NPAS_EXTZV = 10
```

NPARSE matching codes

```
NPAS_EXIT = 0           ; Done  
NPAS_FAIL = -1         ; Fail the parse  
NPAS_ADVANCE = 1       ; Advance pointers
```

NPARSE flag bit definitions

```
NPASM_EXT      = ^X01  
NPASM_PARAM    = ^X02  
NPASM_ACTION   = ^X04  
NPASM_STATE    = ^X08  
NPASM_MASK     = ^X10
```

```

NPASM_MSKADR = ^X20
NPASM_OFFSET = ^X40
NPASM_LAST = ^X8000
.ENDM
.MACRO NPADFS
IMSG$ STTBL,DEBUG
.PSECT NPAS$STATE,NOWRT,NOEXE,BYTE
STTBL::
  .IF IDENTICAL <DEBUG>,<$DEBUG>
  .MACRO DBGTP$
  .LIST
  .NLIST
  .ENDM
  .IF FALSE
  .MACRO DBGTP$
  .ENDM
  .ENDC
NPADFS
FLG$$$ = -1
NXT$$$ = 0
.PSECT
IMSG$
.MACRO FIELDS,LABEL
.PSECT NPAS$STATE
FLG$$$ = FLG$$$!NPASM_LAST
NTRANS
.LABEL:
  .IF NOT_BLANK <LABEL>
  .ENDC
FLG$$$ = -1
.PSECT
IMSG$
.MACRO FIELDS
NTRANS
.PSECT NPAS$STATE
  .IF EQUAL FLG$$$+1
  FLG$$$ = 0
  .MEXIT
  .ENDC
TYP$$$
.WORD FLG$$$
  .IF NOT_EQUAL FLG$$$&NPASM_EXT
EXT$$$
  .ENDC
  .IF NOT_EQUAL FLG$$$&NPASM_PARAM
PRM$$$
  .ENDC
  .IF NOT_EQUAL FLG$$$&NPASM_ACTION
ACT$$$
  .ENDC
  .IF NOT_EQUAL FLG$$$&NPASM_MASK
BIT$$$
  .ENDC
  .IF NOT_EQUAL FLG$$$&NPASM_STATE
STAS$$$
  .IF_FALSE

```

```

      .IF      EQUAL    FLG$$$&NPASM_LAST
      .IF      EQUAL    NXT$$$
      .ERROR   ; BAD DEFAULT TRANSITION
      .ENDC
      .ENDC
      .ENDC
      FLG$$$ = 0
      NXT$$$ = 0
.ENDM
.MACRO ITRANS,LABEL,ACTION,MASK,ADDR,PARAM
      .IF      NOT BLANK <PARAM>
      FLG$$$ = FLG$$$!NPASM_PARAM
      .MACRO PRM$$$
      .ADDRESS PARAM
      .ENDM PRM$$$
      .ENDC
      .IF      NOT BLANK <ACTION>
      FLG$$$ = FLG$$$!NPASM_ACTION
      .MACRO ACT$$$
      .ADDRESS ACTION
      .ENDM ACT$$$
      .ENDC
      .IF      NOT BLANK <MASK>
      FLG$$$ = FLG$$$!NPASM_MASK!NPASM_MSKADR
      .IF      BLANK <ADDR>
      .ERROR   ; MASK ADDRESS NOT PRESENT
      .ENDC
      .MACRO BIT$$$
      .LONG    MASK
      .ADDRESS ADDR
      .ENDM BIT$$$
      .ENDC
      .IF      NOT BLANK <LABEL>
      FLG$$$ = FLG$$$!NPASM_STATE
      .MACRO STAS$$
      .ADDRESS LABEL
      .ENDM STAS$$
      .ENDC
.ENDM
.MACRO $IMAGE,SIZE,LABEL,ACTION,MASK,ADDR,PARAM
      .PSECT  NPAS$STATE
      NTRANS
      DBGTP$
      .MACRO TYP$$$
      .WORD   NPAS$IMAGE
      .ENDM TYP$$$
      .MACRO EXT$$$
      .LONG   SIZE
      .ENDM EXT$$$
      FLG$$$ = FLG$$$!NPASM_EXT
      ITRANS LABEL,ACTION,MASK,ADDR,PARAM
      .PSECT
.ENDM
.MACRO $WORD,VALUE,LABEL,ACTION,MASK,ADDR,PARAM
      .PSECT  NPAS$STATE
      NTRANS

```

```

DBGTPS
.MACRO TYPSS$
.WORD NPAS_WORD
.ENDM TYPSS$
.MACRO EXTSS$
.ADDRESS VALUE
.ENDM EXTSS$
FLGSS$ = FLGSS$!NPASM_EXT
ITRANS LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
.ENDM
.MACRO $WORD
$BYTE,VALUE,LABEL,ACTION,MASK,ADDR,PARAM
.PSECT NPAS$STATE
NTRANS
DBGTPS
.MACRO TYPSS$
.WORD NPAS_BYTE
.ENDM TYPSS$
.MACRO EXTSS$
.ADDRESS VALUE
.ENDM EXTSS$
FLGSS$ = FLGSS$!NPASM_EXT
ITRANS LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
.ENDM
.MACRO $BYTE
$EOM,DUMMY,LABEL,ACTION,MASK,ADDR,PARAM
.PSECT NPAS$STATE
NTRANS
DBGTPS
.MACRO TYPSS$
.WORD NPAS_EOM
.ENDM TYPSS$
ITRANS LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
.ENDM
.MACRO $EOM
$MASK,BITMSK,LABEL,ACTION,MASK,ADDR,PARAM
.PSECT NPAS$STATE
NTRANS
DBGTPS
.MACRO TYPSS$
.WORD NPAS_MASK
.ENDM TYPSS$
.MACRO EXTSS$
.LONG BITMSK
.ENDM EXTSS$
FLGSS$ = FLGSS$!NPASM_EXT
ITRANS LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
.ENDM
.MACRO $MASK
$$SBEXP,RTN,LABEL,ACTION,MASK,ADDR,PARAM
.PSECT NPAS$STATE
NTRANS
DBGTPS
.MACRO TYPSS$
.WORD NPAS_SBEXP
.ENDM TYPSS$

```

```

.MACRO EXT$$$
.ADDRESS      RTN
.ENDM
.ENDM
.MACRO
$SBEXP
$NULL,DUMMY,LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
NTRANS
DBGTPS
.MACRO TYP$$$
.WORD NPAS NULL
.ENDM
ITRANS LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
$NULL
.MACRO $LOOK,VALUE,LABEL,ACTION,MASK,ADDR,PARAM
.PSECT NPAS$STATE
NTRANS
DBGTPS
.MACRO TYP$$$
.WORD NPAS LOOK
.ENDM
.IF NOT BLANK <VALUE>
.MACRO EXT$$$
.LONG VALUE
.ENDM
FLG$$$ = FLG$$$!NPASM_EXT
.ENDC
ITRANS LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
$LOOK
.MACRO $EXTZV,FLD,LABEL,ACTION,MASK,ADDR,PARAM
.PSECT NPAS$STATE
NTRANS
DBGTPS
.MACRO TYP$$$
.WORD NPAS EXTZV
.ENDM
LIST$ FLD
FLG$$$ = FLG$$$!NPASM_EXT
ITRANS LABEL,ACTION,MASK,ADDR,PARAM
.PSECT
$EXTZV
.MACRO LIST$,VAL,POS,SIZ,FLG
.MACRO EXT$$$
.IF NOT_BLANK VAL
.BYTE VAL ; Field value
.IF FALSE
.ERROR ; $EXTZV - FIELD VALUE NOT SPECIFIED
.ENDC
.IF NOT_BLANK POS
.BYTE POS ; Field position
.IF FALSE
.ERROR ; $EXTZV - FIELD POSITION NOT SPECIFIED

```

```

.ENDC
  .IF NOT_BLANK SIZ
  .BYTE SIZ ; Field size
  .IF FALSE
  .ERROR ; $EXTZV - FIELD SIZE NOT SPECIFIED
  .ENDC
  .IF NOT_BLANK FLG
  .BYTE FLG ; Flags
  .IF FALSE
  .BYTE 0 ; No flags
  .ENDC
.ENDM
  EXT$$$
.ENDM
.MACRO $ERROR,ERR,LABEL,ACTION,MASK,ADDR,PARAM
  .PSECT NPASSTATE
  NTRANS
  DBGTPS
  .MACRO TYP$$$
  .WORD NPAS_ERROR
  .ENDM TYP$$$
  .MACRO EXT$$$
  .LONG ERR
  .ENDM EXT$$$
  FLG$$$ = FLG$$$!NPASM_EXT
  ITRANS NPAS_FAIL,ACTION,MASK,ADDR,PARAM
  .PSECT
  .ENDM $ERROR
.MACRO $MATCH,NBR,LABEL,ACTION,MASK,ADDR,PARAM
  .PSECT NPASSTATE
  NTRANS
  DBGTPS
  .MACRO TYP$$$
  .WORD NPAS_MATCH
  .ENDM TYP$$$
  .MACRO EXT$$$
  .LONG NBR
  .ENDM EXT$$$
  FLG$$$ = FLG$$$!NPASM_EXT
  ITRANS LABEL,ACTION,MASK,ADDR,PARAM
  .PSECT
  .ENDM $MATCH
.MACRO $NEXT
  .NEXT$$$ = -1
  NTRANS
  DBGTPS
  FLG$$$ = -1
  .ENDM $NEXT

```



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