


```

UU      UU      TTTTTTTTTT  LL      DDDDDDDD  EEEEEEEEE  FFFFFFFF
UU      UU      TTTTTTTTTT  LL      DDDDDDDD  EEEEEEEEE  FFFFFFFF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UU      UU      TT          LL      DD      DD  EE          FF
UUUUUUUU  TT          LLLLLLLLLL  DDDDDDDD  EEEEEEEEE  FFFFFFFF
UUUUUUUU  TT          LLLLLLLLLL  DDDDDDDD  EEEEEEEEE  FFFFFFFF

```

```

RRRRRRR  333333  222222
RRRRRRR  333333  222222
RR      RR  33      33  22      22
RR      RR  33      33  22      22
RR      RR  33      33  22      22
RR      RR  33      33  22      22
RRRRRRR  33      22
RRRRRRR  33      22
RR      RR  33      33  22
RR      RR  33      33  22
RR      RR  33      33  22
RR      RR  33      33  22
RR      RR  33      33  22
RR      RR  333333  2222222222
RR      RR  333333  2222222222

```

RM
:
:
:
:

++

UTLDEF.B32 - UTILITY DEFINITION MACROS FOR BLISS PROCESSING
 OF STARLET DEFINITION MACROS.
 Version 'V04-000'

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```

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MODIFIED BY:

V02-001 REFORMAT Maria del C. Nasr 01-Aug-1980

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macros to extract offsets, field widths, etc., from field extraction macros

```

MACRO $BYTEOFFSET (OFFSET, POSITION, WIDTH, SIGN) = OFFSET%;
MACRO $BITPOSITION (OFFSET, POSITION, WIDTH, SIGN) = POSITION%;
MACRO $FIELDWIDTH (OFFSET, POSITION, WIDTH, SIGN) = WIDTH%;
MACRO $EXTENSION (OFFSET, POSITION, WIDTH, SIGN) = SIGN%;
MACRO $FIELDMASK (OFFSET, POSITION, WIDTH, SIGN) =
(1^(POSITION+WIDTH) - 1^POSITION)%;

```

macro to generate eqlst constructs

MACRO

```
$EQU[ST(P,G,i,S)[A]=  
  %NAME(P,GET1ST_A) =  
  %IF NUL2ND_A  
  %THEN (I) %COUNT*(S) ! assumes i, s always generated by conversion program  
  %ELSE GET2ND_A  
  %FI %
```

```
GET1ST_(A,B)=  
  A-%
```

```
GET2ND_(A,B)=  
  B-%
```

```
NUL2ND_(A,B)= ! known non-null  
  %NULL(B) %;
```

RMSCALLS
MAR

RMSTDXLNK
R32

RM532MAC
MAR

RMSTDXMAC
R32

UTLDEF
R32

UTLDEFUND
R32

RMSTDXDEF
R32

NTOMACROS
MAR

RMSLST

RMSMCMAC
MAR

RMSINTDEF
LST