

tsbin1.0.pdf – Binary Frequency and Data

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The line indicating the beginning of binary frequency and data comprises a special character (%), a keyword (BINARY), and a two-character string (T1 and T2).

`% BINARY <T1><T2>`

The first token in the two-character string, T1, indicates precision:

D : double precision frequency and data

F : single precision (float) frequency and data

M : double precision frequency and single precision data

The second token, T2, indicates byte order.

B : big-endian (most significant byte first)

L : little-endian (least significant byte first)

Example #:

`% BINARY DB`

indicates double-precision frequency and data in big-endian order.

The % BINARY line can be followed by a \n, \r or a \r\n to indicate newline. Immediately following the newline sequence is one pad 0 byte which indicates the following data is binary format numbers.

Example #:

```
# MHZ S RI R 5.00e+001
! FREQ S11 S12 S13 S14
! S21 S22 S23 S24
! S31 S32 S33 S34
! S41 S42 S43 S44
!
```

```
1.000000e+001
 2.063717e-002 -1.480975e-002  9.540607e-001 -1.925392e-001
-2.306818e-003  7.529011e-003 -5.623072e-003 -1.259668e-003
 9.540620e-001 -1.925394e-001  2.063725e-002 -1.480983e-002
-5.622481e-003 -1.259875e-003 -2.307512e-003  7.529252e-003
-2.306700e-003  7.528990e-003 -5.622914e-003 -1.259719e-003
 2.063738e-002 -1.480973e-002  9.540608e-001 -1.925388e-001
-5.622897e-003 -1.259744e-003 -2.307649e-003  7.529295e-003
 9.540621e-001 -1.925393e-001  2.063837e-002 -1.481020e-002
```

```
# MHZ S RI R 5.00e+001
! FREQ S11 S12 S13 S14
! S21 S22 S23 S24
! S31 S32 S33 S34
! S41 S42 S43 S44
!
```

```
! BINARY FL
_____HBž_Đ¼ÚŒ,½²÷_?_fO¿çŒŒ·<
à <_rN¼fYŒ»¾÷_?_fO¿6öİ¼FŠ,½KrN¼ž^Œ»x%·<_ç <²Œ·<ûß <öqN¼¿ZŒ»Ÿ_Đ¼_ ,½İ÷_?î,O¿wrN¼;
[Œ»f%·<Eç <Œ÷_?"fO¿Pöİ¼P<,½À<B_`!½MíÈ¼;x/>>š^¿xŒç<%^<kİ-
¼Èùš:Mx/>°š^¿Āv!½`ŒÈ¼_İ-¼ôíš:NŠç<- <âŒç<Ū‡ <...İ-¼Wöš:Ū !½çíÈ¼¼x/>°š^¿İİ-
¼â÷š:WŠç<È <šx/>Āš^¿_w!½ xÈ¼Œ_²B{üZ¼™áß»İš<¼_ m¿æŒ
=<_&»;tÈ¼_
```