

NAME

TRNIDX – Return the index of a Hebrew transliteration in an ordered list.

SYNOPSIS

```
INDEX=TRNIDX(TRN,TRAN,NWD)
```

INDEX is the INTEGER*4 order of TRN in TRAN, or 0 if no match is found
 TRN is the CHARACTER*18 transliteration sought
 TRAN(NWD) is an ordered list of CHARACTER*18 transliterations
 NWD is the INTEGER*4 number of words in TRAN

DESCRIPTION

This routine uses bisection to shrink the interval of list indices bracketing the transliteration sought, until a match is found or successive bisections yield the same new interval midpoint. In that case the transliteration sought is compared to the endpoints; either a match is found to one of them or the routine concludes that the transliteration sought is not on the list. If a match is found the routine returns in INDEX the index of TRN in TRAN; otherwise it returns 0.

LINKAGE

```
gfortran source.f -L${HOME}/lib -lmisc
```

AUTHOR

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EXAMPLE

```
PARAMETER (NWD=6)
CHARACTER*18 TRN, TRAN(NWD)
INTEGER*4 TRNIDX
TRN=' e'
TRAN(1)=' a'
TRAN(2)=' b'
TRAN(3)=' c'
TRAN(4)=' d'
TRAN(5)=' e'
TRAN(6)=' f'
PRINT*, TRNIDX (TRN, TRAN, NWD)
STOP
END
```

This example produced the following output:

```
unix[1] a.out
          5
unix[2]
```