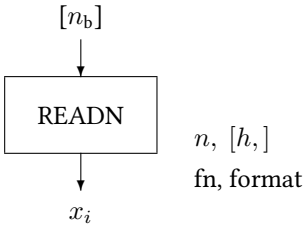
Block READN

The READN reads n data from a file with sequential access and successively provides them as outputs; after n calls READN performs a new read.





Name	READN
Function	fb0038
Inputs	0 . . . [5]
Outputs	1
Parameters	2
Strings	2
Group	S

Inputs

1 Output of a predecessor (optional). If from one time step to the next the value decreases the block performs a Rewind of the file.
2 File name qualifier
3 File name qualifier
4 File name qualifier
5 File name qualifier

Outputs

1 Any value x_i read from file fn

Parameters

1 Number n of values to be read per record
2 Number h of records to be skipped on the first call (file header, the default is $h = 0$)

Strings

1 File name fn
2 Fortran format

Remarks

Integers must be read in format Fx.0, where x is the number of bytes.

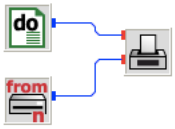
All records of file fn must have the same physical record length.

dwd2002.dat

The next lines show (a part of) the first records of a data file `dwd2002.dat` which can be found in the `examples/data` directory. The file contains irradiance data in kWh per m^2 and month, as published by the German Weather Service DWD for the year 2002.

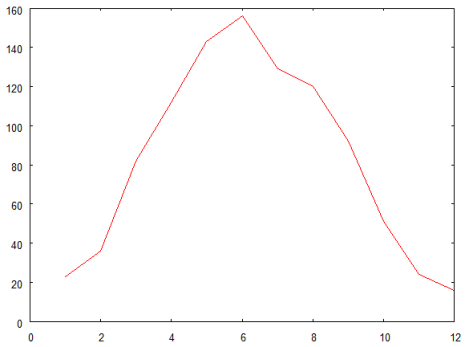
```
Aachen              23   35   88   123   142   ...   16   1001   -1
Augsburg            34   47   100  127   152   ...   22   1178    3
Bad Lippspringe     22   34   79   111   135   ...   16    928   -3
Berlin              21   38   68   103   144   ...   17   1004   -1
Bocholt             20   40   90   119   139   ...   14   1033    3
Bochum              23   36   82   112   143   ...   16    981    2
Bonn                26   41   87   121   142   ...   16   1005    1
Braunlage           20   32   65   104   133   ...   13    938   -2
```

readn.vseit



A READN block is used to read data from the file `dwd2002.dat`. The Number of records to be skipped on the first call is set to five, so that the block actually reads the data for the location Bochum. The number of values to be read per record is set to twelve, with sequential access. In this case the Fortran format `(20X,12F6.0,12X)` is used to read the data.

The 'clicks' are generated by a DO block. A PLOT block displays the twelve monthly means.



See also

Blocks READ, READD, and WRITE.