B$E-RN – Direct File Access Simple Read Block Routine

The B$E-RN routine is one of a family of sub-routines that are reserved for use by the G-3000 Middleware DLMs. B$E-RN(XT) reads a block from the BDAM file.

1.   Invocation

To read a block from the BDAM file code:

```
CALL B$E-RN USING buffer length putback
```

where *buffer* is a PIC X(n) buffer into which the record is returned and *length* is a PIC 9(4) COMP variable (**not a literal**) containing the length of the record to read; and *putback* is a PIC 9(4) COMP variable, or literal, containing the amount to adjust the file address before the read operation.

2.   STOP Codes and Exception Conditions

No STOP codes are generated by B$E-RN.

The following EXIT codes may be returned by B$E-RN:

EXIT code	$$COND	Description
1	1	The resultant block length would be zero, or negative; or an error occurred when reading the file.

3.   Programming Notes

B$E-RN(XT) has been derived from a G-3000 Middleware DLM. Consequently, some of the functionality (e.g. the EXIT codes) may be non-standard.

The BO$G3M DLM, rather than the calling program, contains the File Definition (FD) used for the OPEN NEW operation. The *length* parameter is moved to the Record Length field (FDBLO) in the internal FD. The current FDFAD field in the internal FD is increased by the *putback* parameter. To prevent an attempt to read past the extent of the file, the length of the record may be reduced; and the *length* parameter updated accordingly. An exception will be returned if the resultant block size would be zero or negative.

If the read operation completes successfully the current FDFAD field in the internal FD is increased by the length just read.

4.   Examples

[EXAMPLE REQUIRED]

5.   Copy-Books

None.

6.   See Also

B$D-2R   Direct File Access Simple Read Next Routine (B$D-2RNXT)
B$D-2W   Direct File Access Simple Write Next Routine (B$D-2WRITE)
B$D-CH   Direct File Access Check and Close Routine (B$D-CHK)
B$D-CL   Direct File Access Close Routine (B$D-CLOSE)

B$D-DE Direct File Access Delete Routine (B$D-DELETE)
B$D-IN   Direct File Access Return File Information Routine (B$D-INFO)
B$D-OL Direct File Access Open Old Routine (B$D-OLD)
B$D-OP Direct File Access Open New Routine (B$D-OPEN)
B$D-PO Direct File Access Set Current File Position Routine (B$D-POSITION)
B$D-UN Direct File Access Set Unit Routine (B$D-UNIT)
B$D-WR Direct File Access Write Speedbase Channel (B$D-WRITE)
B$E-CL   Direct File Access Extra Close Routine (B$E-CLOSE)
B$E-GE Direct File Access Get Record Length Routine (B$E-GET-RLEN)
B$E-SE   Direct File Access Set Record Length Routine (B$E-SET-RLEN)
B$E-ZE   Direct File Access Set File Address to Zero Routine (B$E-ZERO)
R$B-SA   Direct File Access Save Address of Current Record (R$B-SAVE)
R$B-WR Direct File Access Rewrite from Saved File Address (R$B-WRITE)
R$B2WR Direct File Access Rewrite from Saved File Address (R$B2WRITE)
R$PFSC Direct File Access Check For Free Space (R$PFSCHK)