

Calculating the DLOG Area Size

► To calculate a DSF logging area size (DLOGSIZE), use the following procedure as a guide:

1. First, determine
 - the estimated number of Associator/Data Storage write I/O operations that will occur between consecutive delta save operations (WIOS);
 - the Associator data set block size (ASSOBSIZ) for the Associator device from the tables in appendix A of the *Adabas Operations* documentation, and
 - the security factor (DLOGFAC), a multiplier to ensure that no DLOG overrun occurs.
2. Calculate the approximate number of logged RABNs per DLOG block (LOGRABNS):

$$\text{LOGRABNS} = \frac{\text{ASSOBSIZ}}{5}$$

3. Calculate the needed number of DLOG detail blocks (DLOGBLKS):

$$\text{DLOGBLKS} = \frac{\text{WIOS}}{\text{LOGRABNS}}$$

4. Calculate the DLOG block count (DLOGRAW), including the security factor:

$$\text{DLOGRAW} = \text{DLOGBLKS} + \text{DLOGFAC}$$

The value DLOGSIZE is the calculated size of the DLOG area, in blocks.

Example:

The DLOG size is calculated using an average number of I/O operations between Delta Save operations of 1,000,000 based on a 3390 device type:

The approximate number of logged RABNs per block is

$$\frac{2544}{5} = 508$$

The required detail blocks are calculated as

$$\frac{1000000}{508} = 1968$$

The total DLOG block count including the security factor (in this case, 3) is calculated as

$$1968 + 3 = 5904$$

-or 5904 blocks of DLOG area.

This value is entered in the "DLOG Area Size" field.