DS - Define Size of Storage Buffer

This Natural profile parameter defines the default initial size of various Natural storage buffers.

In previous versions of Natural, individual profile parameters (for example, SSIZE) were used to define the sizes of the buffers. The DS profile parameter is a universal parameter to specify all buffer sizes. It corresponds to the NTDS macro in the Natural parameter module NATPARM.

See also *Natural Storage Management* and *General Rules for Parameter Usage* in the *Operations* documentation.

Note:
There are some buffer sizes (for example, ESIZE, VSIZE, etc.) which cannot be specified by the profile parameter DS, due to certain reasons, for example, the size is part of a larger buffer or the size defines the total maximum of a number of buffers.

Possible settings	*(name,size)*	*name* is the buffer name (1-8 characters), see *Table of Buffer Sizes* below. *size* is the buffer size in kilobytes. For limit values, see *Table of Buffer Sizes* below.
Default setting	See table below.	
Dynamic specification	yes	Multiple pairs of buffer names/sizes can be specified. This parameter can only be specified dynamically. In the Natural parameter module NATPARM, the corresponding macro NTDS must be used instead.
Specification within session	no	

You may continue using the individual parameters or you may use the individual parameters in parallel to the parameter DS. During the dynamic parameter evaluation, individual buffer size parameters are converted internally into the new DS parameter format, for example, SSIZE=55 is converted into DS=(SSIZE,55).

The following topics are covered below:

- DS Parameter Syntax
- NTDS Macro Syntax
- Table of Buffer Sizes
- Examples

DS Parameter Syntax

The DS parameter is specified as follows:

DS=(*name1*,*size1*,*name2*,*size2*,...)

NTDS Macro Syntax

The NTDS macro is specified as follows:

```
NTDS  name1,size1
NTDS  name2,size2
...
```

Table of Buffer Sizes

Buffer Name	Description	Buffer Size (KB)	Default	Available as subparameter of DS and alternatively as individual profile parameter
ASIZE	Entire System Server auxiliary buffer	0, 1-64	0	yes
BSIZE	Size of EntireX Broker buffer	0, 1-64	0	yes
CSIZE	Size of Con-nect/Con-form buffer area	0-512	0	yes
DATSIZE	Size of buffer for local data	10-2097151	32	yes
DSIZE	Initial size of DBLOG buffer	0, 2 - 2097151	2	yes **Note:** The individual profile parameter DSIZE allows you to set a maximum size in addition.
EDPSIZE	Size of the Software AG Editor auxiliary buffer pool	0, 48-2097151	0	yes
ETPSIZE	Size of Entire Transaction Propagator buffer	0, 10-128	0	yes
EXCSIZE	Size of buffer for Natural Expert C interface	0, 1-256	0	yes
EXRSIZE	Size of buffer for Natural Expert rule tables	0, 1-256	0	yes
MONSIZE	Size of SYSTP monitor buffer	0, 5-256	0	yes
MULFETCH	Size of Multi-fetch buffer	0-1024	64	no (only available as subparameter of DS) **Note:** A value specified for this buffer does not represent the default initial size but the maximum size which can be allocated for multi-fetch purposes.
NAFSIZE	Size of buffer for Natural Advanced Facilities	0, 1-64	0	yes
NSFSIZE	Size of SAF interface buffer.	0, 8-64	0	no (only available as subparameter of DS)
RDCSIZE	Size of buffer for the Natural Data Collector	0, 2-128	0	yes
RJESIZE	Initial size of NATRJE buffer	0, 1-2097151	8	yes
RUNSIZE	Size of runtime buffer	10-64	16	yes
SSIZE	Size of Software AG Editor buffer	0, 40-512	64	yes
TSIZE	Size of the buffer for Adabas Text Retrieval	0, 1-2097151	0	yes
XSIZE	Size of buffer for user subsystem	0, 1-64	0	yes
ZSIZE	Size of Entire DB buffer area	0, 1-64	0	yes

For more information, refer to the descriptions of the individual buffer size parameters.

Examples

Example of DS parameter:

```
DS=(ASIZE,33,TSIZE,60,EDPSIZE,500)
```

Equivalent in Natural parameter module NATPARM:

```
NTDS  ASIZE,33
NTDS  TSIZE,60
NTDS  EDPSIZE,500
```