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.

Anmerkung:
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 debug buffer	`0, 2-2097151`	`2`	yes **Anmerkung:** 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`) **Anmerkung:** 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
```