

Predefined structured variables

D2000 systems contains several predefined objects of [Structured variable](#) type that allow to show some important diagnostic information on the status of the D2000 system. Each of the objects are described in the text below.

This diagnostic information may be viewed in process [D2000 HI](#) as follows:

1. In process **D2000 HI**, open required predefined structured variable (see the chapter [Edit a structure](#)).
2. In the **Browse and edit the structured variable**, type the object name (or IP address) in dependence on predefined structured variable.
3. Click the button **Apply changes**. Diagnostic information will be displayed automatically in the window.

SV._System_ArchivPerformance

The object enables to show some diagnostic information about the status of process [D2000 Archiv](#) in D2000 system. D2000 system refreshes the data with the period of 10 seconds.

[Structure definition.](#)

SV._System_DBMDbPerf

The object is used for listing the information about runtime that are generated by a running process (or processes) D2000 DB Manager (see more details [S V._System_DBMDbPerf](#)). The structured variable is not a common part of application configuration. It must be created before using. Its name "SV._System_DBMDbPerf" and structure are important. The structure should be following:

Item name	Value type	Description
Database	Text	Name of Database object or DbManager process.
ConNrTrans	Integer	The number of transactional connects.
CurrRqTrans	Integer	The number of queue items for transaction connects.
MaxRqTrans	Integer	Maximum number of items in a transaction queue.
ConNrAuto	Integer	Number of automatic connects.
CurrRqAuto	Integer	The number of queue items for automatic connects.
MaxRqAuto	Integer	Maximum number of items in an automatic queue.
ConNrBrowse	Integer	The number of browser connects.
CurrRqBrowse	Integer	The number of queue items for browser connects.
MaxRqBrowse	Integer	Maximum number of items in a browser queue.

The definition of object [SD._System_DBMDbPerf](#) should be used as a definition of structure for the structured variable SV._System_DBMDbPerf.

The meaning of the items is stated [here](#).

When creating the structured variable, it is necessary to define its parameters as follows:

- Structure type: **SD._System_DBMDbPerf**
- Monitoring of changes: **No** – this causes the value changes not to be written to the log database. We recommend archiving the structured variable by a [structured historical value](#).
- Storing the start value: **No**
- Manual: **Yes** (if **No**, the necessary values will not be published)
- Array size: **depends on the user's configuration**

SV._System_EDAServerPerformance2

This object includes diagnostic data about the status of the EDA Server process. These data are updated periodically every 60 seconds.

[Structure definition.](#)

SV._System_LinePerformance

The object allows to show diagnostic information on the complex status of objects of [Line](#) type in the D2000 system. Process [D2000 KOM](#) refreshes the data with a period of 10 seconds. The data may be set to zero by using the Tell command [RESETPERF](#). Some of the data and its changes depend on the communication type ([communication protocol](#)) - e.g. number of received and sent bytes,...
[Structure definition](#).

SV._System_NetStatus

The object allows to show some diagnostic information on the status of the network (or network components - in dependence on configuration). The system refreshes the data according to configuration.
[Structure definition](#).

SV._System_Proces

The object allows to show some diagnostic information on the status of the D2000 system process defined by the item **Name**. The system refreshes some of the data immediately (depending on the status of the process) and some periodically (counters).
[Structure definition](#).

SV._System_Redundancy

The object allows to show some diagnostic information on the status of D2000 system [redundancy](#) according to configuration. The system refreshes the data with a period of 10 seconds.
[Structure definition](#).

SV._System_StationPerformance

The object allows to show diagnostic information on the complex status of objects of [Station](#) type in the D2000 system. Process [D2000 KOM](#) refreshes the data with a period of 10 seconds. The data may be set to zero by using the Tell command [RESETPERF](#). Some of the data and its changes depend on the communication type ([communication protocol](#)).
[Structure definition](#).

SV._System_TCTSPerformance

The object enables to show the diagnostic information on
[Structure definition](#).



Related pages:

[Structured variables](#)