

Fujitsu Software BS2000 TASKDATE V21.0

Tool for setting the time environment

Topics



Product characteristic

The TASKDATE tool enables users to place programs in a self-defined time environment. This greatly simplifies and improves the testing of application software containing date-dependent procedures. Typical uses include, for example:

- Testing business transactions,
 - Converting procedures to different accounting periods,
 - Testing date- and time-dependent AVAS job nets.
- Production operation can continue without problems concurrently with the tests in offset time.

Functional description

Once the desired time environment has been set, an offset simulated time is supplied at the program interfaces as current time.

Optional parameters can be used to control for which of these interfaces the simulated time is to be supplied. For batch jobs (ENTER jobs), the simulated time can be specified externally. There is no need to modify the ENTER file.

Each task can bequeath its simulated time environment to the follow-on jobs launched by it. This means that TASKDATE can be used to test entire job nets in a modified time environment.

Program description

TASKDATE is implemented as a dynamically loadable, privileged subsystem.

The command /SET-TASK-CLOCK is used to set the simulated time for the task.

The INTERFACES parameter specifies which user interfaces are to be supplied with the simulated time:

- GTIME and GDATE macros,
- time queries by high-level language programs,
- special job variables,
- predefined SDF-P functions.

The SCOPE parameter defines how the simulated time is transferred to follow-on jobs. By default, the simulated time applies only to the current task.

There are two possible scenarios when the simulated time is passed on to follow-on jobs

The simulated time is immediately valid for the current task and is also inherited by the follow-on jobs that it launches.

The current task continues running with the current system time. The follow-on jobs launched by the task run in the simulated time environment.

The command /SHOW-TASK-CLOCK enables the user to find out the jobs or tasks which are running in a simulated time environment. In such case, the time difference with respect to the system time and the simulated time are output.

Providing precise time information also includes indicating whether summer or winter time applies.

The time conversion data for this is specified centrally for the operating system in the GTIME parameter file.

For use of the test tool, it makes sense to add time conversion data to the system up to the simulated time.

Supplementary notes

Use of TASKDATE has no effect on DMS time information (e.g. Creation-Date). Generated or modified time stamps in the catalog continue to be based on the system time. The same applies to time specifications for HSMS, ARCHIVE and MAREN. The JMS also starts scheduled jobs based on system time. The time values returned by the STCK command are likewise unaffected.

In the following cases, the test must be run (under VM2000 in a separate guest system) with a modified system time

- Tests with use of HSMS, ARCHIVE, MAREN,
- Evaluation of catalog time stamps,
- Use of explicit job start times,
- Determining the time with STCK.

Note on testing DB applications

Tests must never be performed using a production database.

Technical Details

Requirements

Technical Requirements Hardware	BS2000 Business Server
Technical Requirements Software	BS2000 OS DX V1
User Requirements	BS2000 application knowledge

Installation

Operating Mode	Dialog and batch mode
Implementation Language	Assembler, SPL
User Interface	Commands (English) Message texts (English or German)
Installation	Readme file supplied

Documentation and Training

Documentation	Readme file supplied, see Manuals
Training	See course offer at: Courses (German)

Purchase and Delivery

Conditions	This software product is supplied to the customer against a single payment or installments in accordance with our conditions for the use of software products.
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