
AIMMS Function Reference - GMP Solver Procedures and Functions

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GMP::Solver Procedures and Functions

AIMMS supports the following procedures and functions for retrieving solver related information:

- `GMP::Solver::GetAsynchronousSessionsLimit`

GMP::Solver::GetAsynchronousSessionsLimit

The function `GMP::Solver::GetAsynchronousSessionsLimit` returns the maximum number of asynchronous solver sessions that can run simultaneous for a certain solver. This number depends on the AIMMS license.

```
GMP::Solver::GetAsynchronousSessionsLimit(
    solver      ! (input) a solver
)
```

Arguments:

solver
An element in the set `AllSolvers`.

Return value:

The maximal number of asynchronous solver sessions that can run simultaneous using *solver*, or any other version of the same solver.

Remarks:

- The function returns 0 if the solver cannot be found.
- To count the number of asynchronous solver sessions currently running with a solver, AIMMS checks all solver versions available. For example, if one asynchronous solver session is running with CPLEX 12.1 and another simultaneous with CPLEX 11.2 then solver CPLEX is running two asynchronous solver sessions. The value returned by this function limits all solver versions together (even though the argument passed to the function refers to a particular solver version).

Examples:

Assume that 'MaxSes' is a parameter then the following statement returns the maximal number of asynchronous solver sessions for CPLEX:

```
MaxSes := GMP::Solver::GetAsynchronousSessionsLimit( 'CPLEX 12.1' );
```

The value `MaxSes` is the limit on asynchronous solver sessions that can run at the same time with CPLEX 12.1 plus CPLEX 11.2 plus CPLEX 11.1, etc.

See also:

The routine `GMP::SolverSession::AsynchronousExecute`.