

GETARCH* actions - example

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BEGIN
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```
RECORD NOALIAS (SD.GetArchRowCol_Ref) _data
RECORD (SD.GetArchRowCol_Ref) _ref
ALIAS (SD._System_Proces) _Aref

RECORD (SD._System_Proces) _sysProc

TIME _bt
TIME _et
INT _step
INT _retCode
TIME _currTime

REAL _value

INT _col
INT _row

INT _begin
INT _end
REAL _duration
REAL _duration1
REAL _duration2
INT _loop
REAL _improvement

_currTime := SysTime
_bt := %AddIntervalLocal(_currTime, -1*%ModTime(_currTime, 3600))
;_bt := %AddIntervalLocal(_bt, -24*3600*7)
_et := %AddIntervalLocal(_bt, 3600)
_step := 0

DO_LOOP
  _duration1 := 0
  FOR _loop = 1 TO 10 DO_LOOP
    _begin := 0
    GETARCHSTRUCT SV._System_Proces, _sysProc, _bt, _retCode
    _end := 0
    _duration1 := _duration1 + (_end\TIM - _begin\TIM)
  END_LOOP

  _duration2 := 0
  FOR _loop = 1 TO 10 DO_LOOP
    _begin := 0
    FOR _row = 1 TO SV._System_Proces\DIM DO_LOOP
      FOR _col = 1 TO SV._System_Proces\CNR DO_LOOP
        GETARCHVAL _value, SV._System_Proces[_row]^_col, _bt
      END_LOOP
    END_LOOP
    _end := 0
    _duration2 := _duration2 + (_end\TIM - _begin\TIM)
  END_LOOP

  _duration1 := _duration1 / 10.0
  _duration2 := _duration2 / 10.0
  U.Duration_ROWCOL := _duration1 TIME _duration1\TIM
  U.Duration_VAL := _duration2 TIME _duration1\TIM

  U.Duration_improvement := _duration2 / _duration1 TIME _duration1\TIM
END_LOOP

GETARCHSTRUCT H._System_Proces, _sysProc, _bt, _retCode
```

```
SET _Aref AS SV._System_Proces
GETARCHSTRUCT _Aref, _sysProc, _bt, _retCode

U.Count := U.Count + 1
SET _ref^I1 AS Hour
SET _ref^I2 AS Min
SET _ref^I3 AS Sec
SET _ref^I4 AS SysTime

GETARCHROW _ref[1], _data, _bt, _et, _step, 30000, _retCode
GETARCHROW SV.GetArchRowCol_Ref[1], _data, _bt, _et, _step, 30000, _retCode
GETARCHROW H.GetArchRowCol_Ref[1], _data, _bt, _et, _step, 30000, _retCode

REDIM _ref[4]
SET _ref[1]^I1 AS Hour
SET _ref[2]^I1 AS Min
SET _ref[3]^I1 AS Sec
SET _ref[4]^I1 AS SysTime

GETARCHCOL _ref[0]^I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYROW
GETARCHCOL SV.GetArchRowCol_Ref[0]^I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYROW
GETARCHCOL H.GetArchRowCol_Ref[0]^I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYROW
GETARCHCOL H.GetArchRowCol_Ref_Col_I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYROW

GETARCHCOL _ref[0]^I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYCOL
GETARCHCOL SV.GetArchRowCol_Ref[0]^I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYCOL
GETARCHCOL H.GetArchRowCol_Ref[0]^I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYCOL
GETARCHCOL H.GetArchRowCol_Ref_Col_I1, _data, _bt, _et, _step, 30000, _retCode TIMEBYCOL
```

END



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