

Article

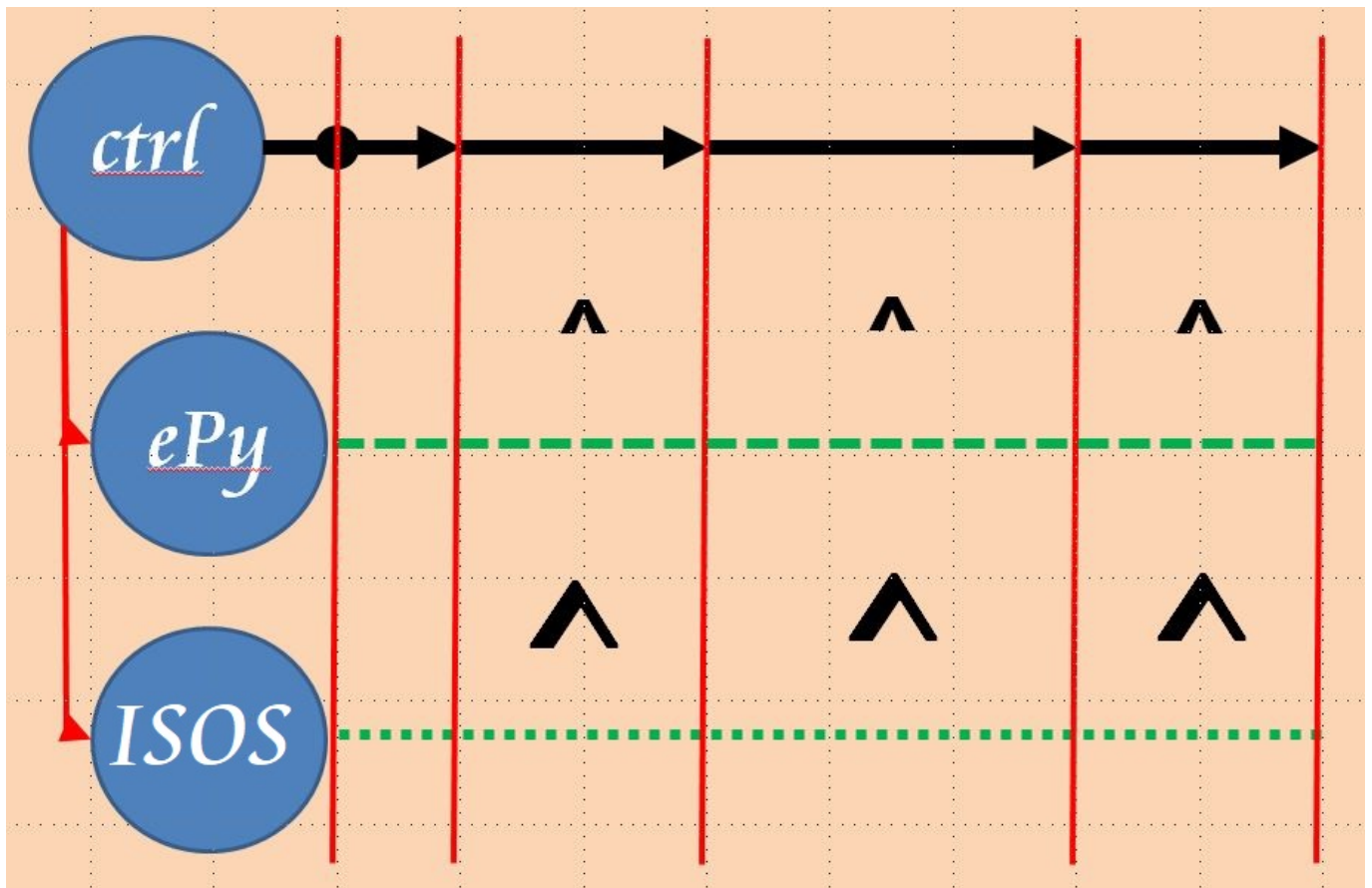
[Robert Cemper](#) · Mar 19, 2022 2m read

## Compare Global Write in ePy vs. ISOS/COS

This example demonstrates the difference you may experience when you write to Globals directly from Embedded Python compared to native ObjectScript.

To make this demo useful I start 2 background jobs that simply write sequentially to a dedicated global. A common control method signals for a synchronous start. Similar a common stop & view interrupts data feeding.

That's the principle process:



As 2 jobs run in parallel the probability of just using sequential blocks is reduced. During the development of this demo, I detected that the JOB command has problems with ClassMethods in Embedded Python.

### WARNING:

Due to the poor dimensioned Community License the start of the background jobs may fail if you have other connections active at the same time.

During my series of tests, I found that ePy writes 53% of the pure ISOS code. See also examples below.

The control method prepares the background processes and has 3 commands:

- 0 .. stop background jobs and show last run results
- 1 .. interrupt background jobs and show last run results
- 2 .. run data load in background jobs.
  - Loading is interrupted after 60 sec to prevent breaking of the DB if not done manually

## Example

```
USER>do ##class(dc.rcc.ePYvsISOS).do()  
  
JobStart ISOS #3841  
JobStart ePy #3842  
Job Control [0=stop,1=view,2=go]: 2  
Job Control [0=stop,1=view,2=go]: 1  
^ePy(1,492029)=2022-03-11 20:49:32.851286  
^ISOS(1,927383)=2022-03-11 20:49:32.851289  
  
Job Control [0=stop,1=view,2=go]:  
Job Control [0=stop,1=view,2=go]: 2  
Job Control [0=stop,1=view,2=go]:  
Job Control [0=stop,1=view,2=go]:  
Job Control [0=stop,1=view,2=go]:  
Job Control [0=stop,1=view,2=go]:  
^ePy(2,4149270)=2022-03-11 20:50:54.620362  
^ISOS(2,7719690)=2022-03-11 20:50:54.620371  
  
Job Control [0=stop,1=view,2=go]:2  
Job Control [0=stop,1=view,2=go]:  
Job Control [0=stop,1=view,2=go]: 0  
^ePy(3,3148765)=2022-03-11 20:50:54.620362  
^ISOS(3,6714519)=2022-03-11 20:50:54.620371
```

## [Video](#)

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