

# SVMON - part 1

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## SVMON - Basic to Advanced usage (part 1)

Part 1 SVMON is the standard program for analyzing memory usage on AIX. SVMON - "The basics" - is what is covered in a AIX performance class (you see the arguments -G and -P and maybe a few more) but very little of the -O (options) that can be applied to get customized output.

In this "part 1" I will show how to get output similar to commands taught/shown in a performance class - but customised so that units are in KB|MB|GB rather than in page/frame counts.

The -O option that modifies the output into so-called human-readable units is: -O unit=auto although I prefer being more specific to MB and use -O unit=MB

Classic SVMON The classic svmon output is without any arguments - and is equivalent to svmon -G

```
michael@x071:[/tmp]svmon
```

	size	inuse	free	pin	virtual	mmode
memory	786432	761212	25220	151370	269851	Ded
pg space	262144	2499				

	work	pers	clnt	other
pin	120912	0	3130	27328
in use	269851	0	491361	

	PageSize	PoolSize	inuse	pgsp	pin	virtual
s	4 KB	-	564972	2499	50490	73611
m	64 KB	-	12265	0	6305	12265

```
michael@x071:[/tmp]svmon -G
```

	size	inuse	free	pin	virtual	mmode
memory	786432	761219	25213	151370	269852	Ded
pg space	262144	2499				

	work	pers	clnt	other
pin	120912	0	3130	27328
in use	269852	0	491367	

```

PageSize PoolSize  inuse  pgsp  pin  virtual
s  4 KB    -   564979  2499  50490  73612
m  64 KB   -   12265   0     6305  12265
    
```

As these are all frame counts, and especially since 1 64 KB page is equal to 16 4KB pages the sections are difficult to compare. Instead compare these two commands

Human readable `svmonmichael@x071:[/tmp]svmon -O unit=auto`

Unit: auto

```

-----
          size  inuse  free  pin  virtual available  mmode
memory    3.00G  2.92G  78.3M  591.85M  1.05G  1.79G  Ded
pg space   1.00G   10.1M

          work  pers  clnt  other
pin        472.88M  0K   12.2M  106.75M
in use     1.05G   0K   1.87G
    
```

`michael@x071:[/tmp]svmon -O unit=MB`

Unit: MB

```

-----
          size  inuse  free  pin  virtual available  mmode
memory    3072.00  2948.28  123.72  591.29  1030.05  1876.17  Ded
pg space   1024.00    9.85

          work  pers  clnt  other
pin        472.31    0   12.2  106.75
in use     1030.05    0  1918.23
    
```

In the first command, using `-O unit=auto` not only do the base sizes change - I must pay attention to the letter behind the value. In the second command there are no trailing letters to specify unit size - all sizes are uniform.

Next installementThis is just to let you see whether you think this could be useful to you. In the next installment I will show how to get similiar outputs using an argument like `-P`. Right now I shall just highlight that there is a big difference in the number of lines returned

```
michael@x071:[/tmp]svmon -P -t 3 | wc -l
```

```
147
```

```
michael@x071:[/tmp]svmon -P -t 3 -O unit=MB | wc -l
```

```
7
```

```
michael@x071:[/tmp]svmon -P -t 3 -O unit=MB
```

```
Unit: MB
```

```
-----  
  Pid Command      Inuse   Pin   Pgspace Virtual  
7798926 httpd      769.77  52.8   0 120.56  
9502902 httpd      767.39  52.8   0 118.19  
5832878 httpd      761.58  52.8   0 112.38
```