

WorkLoad Manager For AIX 4.3.3 / AIX 5.1

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Class

Defination of the groups and their priority.

```
# cat /etc/wlm/nls/classes
```

```
parallel:
    tier = 0
```

```
serial:
    tier = 1
```

```
System:
```

```
Default:
```

Defination of the groups and their priority.

Limits

Defination of Maximum CPU limits for classes. WLM enforces the maximum range to ensure that a class or process within a class is not given more resources than the specified value.

```
# cat /etc/wlm/nls/limits
```

```
parallel:
    memory = 1%-75%
    CPU = 1%-75%
```

```
serial:
    memory = 1%-25%
    CPU = 1%-25%
```

```
System:
    memory = 1%-100%
    CPU = 1%-100%
```

Shares

Defination of number of shares for the classes. Shares allows you to allocate CPU and memory time to the user / application. If there is 2 classes which are in the same tier, the limits will take into account. But if the system is idle, the executing application will get all the CPU / Memory time that the system has.

```
# cat /etc/wlm/nls/shares
```

```
parallel:
    memory = 2
    CPU = 2
```

```
serial:
    memory = 1
    CPU = 1
```

Rules

Class assignment rules is used by system to compare attributes of the process, such as user ID, group ID and /or the path of the application executed. The first match will determines to which class the process will be assigned.

```
# cat /etc/wlm/nls/rules
```

* class	resvd	user	group	application
parallel	-	bala	-	-
serial	-	tanil	-	-
system	-	root	-	-
Default	-	-	-	-

To start the WLM

```
# wlmctrl
```

To stop the WLM

```
# wlmctrl -o
```

To restart / refresh the WLM

```
# wlmctrl -r
```

Guidelines

Maximum class	=	27 (Class name has a maximum of 16 characters)
Maximum sub-class	=	10
Maximum shares	=	65535
Tier 0	=	Most Important
Tier 9	=	Least Important

Allocating of resources to the applications

The resources shares for the application is allocated in the following manner.

- [1] By "Tiers"
- [2] By "Shares"
- [3] By "Limits"

Eg.If the tier and limits are the same, WLM will allocate resources based on shares.