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1 Reference Manual

The operating system monitor, OS_Mon, provides services for monitoring CPU load, disk usage, memory usage and OS messages.

os_mon

Application

The operating system monitor, OS_Mon, provides the following services:

- cpu_sup CPU load and utilization supervision (Unix)
- disksup Disk supervision(Unix, Windows)
- memsup Memory supervision (Unix, Windows)
- os_sup Interface to OS system messages (Solaris, Windows)

To simplify usage of OS_Mon on distributed Erlang systems, it is not considered an error trying to use a service at a node where it is not available (either because OS_Mon is not running, or because the service is not available for that OS, or because the service is not started). Instead, a warning message is issued via error_logger and a dummy value is returned, which one is specified in the man pages for the respective services.

Configuration

When OS_Mon is started, by default all services available for the OS, except os_sup, are automatically started. This configuration can be changed using the following application configuration parameters:

```
start_cpu_sup = bool()
```

Specifies if cpu_sup should be started. Defaults to true.

start_disksup = bool()

Specifies if disksup should be started. Defaults to true.

```
start_memsup = bool()
```

Specifies if memsup should be started. Defaults to true.

```
start_os_sup = bool()
```

Specifies if os_sup should be started. Defaults to false.

Configuration parameters effecting the different OS_Mon services are described in the respective man pages.

See config(4) for information about how to change the value of configuration parameters.

See Also

cpu_sup(3), disksup(3), memsup(3), os_sup(3), nteventlog(3), snmp(3).

cpu_sup

Erlang module

cpu_sup is a process which supervises the CPU load and CPU utilization. It is part of the OS_Mon application, see os_mon(6). Available for Unix, although CPU utilization values (util/0,1) are only available for Solaris, Linux and FreeBSD.

The load values are proportional to how long time a runnable Unix process has to spend in the run queue before it is scheduled. Accordingly, higher values mean more system load. The returned value divided by 256 produces the figure displayed by rup and top. What is displayed as 2.00 in rup, is displayed as load up to the second mark in xload.

For example, rup displays a load of 128 as 0.50, and 512 as 2.00.

If the user wants to view load values as percentage of machine capacity, then this way of measuring presents a problem, because the load values are not restricted to a fixed interval. In this case, the following simple mathematical transformation can produce the load value as a percentage:

PercentLoad = 100 * (1 - D/(D + Load))

D determines which load value should be associated with which percentage. Choosing D = 50 means that 128 is 60% load, 256 is 80%, 512 is 90%, and so on.

Another way of measuring system load is to divide the number of busy CPU cycles by the total number of CPU cycles. This produces values in the 0-100 range immediately. However, this method hides the fact that a machine can be more or less saturated. CPU utilization is therefore a better name than system load for this measure.

A server which receives just enough requests to never become idle will score a CPU utilization of 100%. If the server receives 50% more requests, it will still score 100%. When the system load is calculated with the percentage formula shown previously, the load will increase from 80% to 87%.

The avg1/0, avg5/0, and avg15/0 functions can be used for retrieving system load values, and the util/0 and util/1 functions can be used for retrieving CPU utilization values.

When run on Linux, cpu_sup assumes that the /proc file system is present and accessible by cpu_sup. If it is not, cpu_sup will terminate.

Exports

```
nprocs() -> UnixProcesses | {error, Reason}
Types:
    UnixProcesses = int()
    Reason = term()
```

Returns the number of UNIX processes running on this machine. This is a crude way of measuring the system load, but it may be of interest in some cases.

Returns 0 if cpu_sup is not available.

```
avg1() -> SystemLoad | {error, Reason}
Types:
    SystemLoad = int()
    Reason = term()
```

Returns the average system load in the last minute, as described above. 0 represents no load, 256 represents the load reported as 1.00 by rup.

Returns 0 if cpu_sup is not available.

```
avg5() -> SystemLoad | {error, Reason}
```

Types:

```
SystemLoad = int()
Reason = term()
```

Returns the average system load in the last five minutes, as described above. 0 represents no load, 256 represents the load reported as 1.00 by rup.

Returns 0 if cpu_sup is not available.

```
avg15() -> SystemLoad | {error, Reason}
Types:
```

```
SystemLoad = int()
Reason = term()
```

Returns the average system load in the last 15 minutes, as described above. 0 represents no load, 256 represents the load reported as 1.00 by rup.

Returns 0 if cpu_sup is not available.

```
util() -> CpuUtil | {error, Reason}
Types:
    CpuUtil = float()
    Reason = term()
```

Returns CPU utilization since the last call to util/0 or util/1 by the calling process.

Note:

The returned value of the first call to util/0 or util/1 by a process will on most systems be the CPU utilization since system boot, but this is not guaranteed and the value should therefore be regarded as garbage. This also applies to the first call after a restart of cpu_sup.

The CPU utilization is defined as the sum of the percentage shares of the CPU cycles spent in all busy processor states (see util/1 below) in average on all CPUs.

Returns 0 if cpu_sup is not available.

```
util(Opts) -> UtilSpec | {error, Reason}
Types:
    Opts = [detailed | per_cpu]
    UtilSpec = UtilDesc | [UtilDesc]
    UtilDesc = {Cpus, Busy, NonBusy, Misc}
    Cpus = all | int() | [int()]()
    Busy = NonBusy = {State, Share} | Share
    State = user | nice_user | kernel
```

```
| wait | idle | atom()
Share = float()
Misc = []
Reason = term()
```

Returns CPU utilization since the last call to util/0 or util/1 by the calling process, in more detail than util/0.

Note:

The returned value of the first call to util/0 or util/1 by a process will on most systems be the CPU utilization since system boot, but this is not guaranteed and the value should therefore be regarded as garbage. This also applies to the first call after a restart of cpu_sup.

Currently recognized options:

detailed

The returned UtilDesc(s) will be even more detailed.

per_cpu

Each CPU will be specified separately (assuming this information can be retrieved from the operating system), that is, a list with one UtilDesc per CPU will be returned.

Description of UtilDesc = {Cpus, Busy, NonBusy, Misc}:

Cpus

If the detailed and/or per_cpu option is given, this is the CPU number, or a list of the CPU numbers.

If not, this is the atom all which implies that the UtilDesc contains information about all CPUs.

Busy

If the detailed option is given, this is a list of {State, Share} tuples, where each tuple contains information about a processor state that has been identified as a busy processor state (see below). The atom State is the name of the state, and the float Share represents the percentage share of the CPU cycles spent in this state since the last call to util/0 or util/1.

If not, this is the sum of the percentage shares of the CPU cycles spent in all states identified as busy.

If the per_cpu is not given, the value(s) presented are the average of all CPUs.

NonBusy

Similar to Busy, but for processor states that have been identified as non-busy (see below).

Misc

Currently unused; reserved for future use.

Currently these processor states are identified as busy:

user

Executing code in user mode.

```
nice_user
```

Executing code in low priority (nice) user mode. This state is currently only identified on Linux.

kernel

Executing code in kernel mode.

Currently these processor states are identified as non-busy:

wait

Waiting. This state is currently only identified on Solaris.

idle

Idle.

Note:

Identified processor states may be different on different operating systems and may change between different versions of cpu_sup on the same operating system. The sum of the percentage shares of the CPU cycles spent in all busy and all non-busy processor states will always add up to 100%, though.

Returns {all,0,0,[]} if cpu_sup is not available.

See Also

 $os_mon(3)$

disksup

Erlang module

disksup is a process which supervises the available disk space in the system. It is part of the OS_Mon application, see os_mon(6). Available for Unix and Windows.

Periodically checks the disks. For each disk or partition which uses more than a certain amount of the available space, the alarm {{disk_almost_full, MountedOn}, []} is set.

On Unix

All (locally) mounted disks are checked, including the swap disk if it is present.

On WIN32

All logical drives of type "FIXED_DISK" are checked.

Alarms are reported to the SASL alarm handler, see alarm_handler(3). To set an alarm, alarm_handler:set_alarm(Alarm) is called where Alarm is the alarm specified above.

The alarms are cleared automatically when the alarm cause is no longer valid.

Configuration

The following configuration parameters can be used to change the default values for time interval and threshold:

```
disk_space_check_interval = int()>0
```

The time interval, in minutes, for the periodic disk space check. The default is 30 minutes.

```
disk_almost_full_threshold = float()
```

The threshold, as percentage of total disk space, for how much disk can be utilized before the disk_almost_full alarm is set. The default is 0.80 (80%).

```
disksup_posix_only = bool()
```

Specifies whether the disksup helper process should only use POSIX conformant commands (true) or not. The default is false. Setting this parameter to true can be necessary on embedded systems with strippeddown versions of Unix tools like df. The returned disk data and alarms can be different when using this option.

The parameter is ignored on platforms that are known to not be POSIX compatible (Windows and SunOS).

See config(4) for information about how to change the value of configuration parameters.

Exports

```
get_disk_data() -> [DiskData]
Types:
   DiskData = {Id, KByte, Capacity}
   Id = string()
   KByte = int()
   Capacity = int()
```

Returns the result of the latest disk check. Id is a string that identifies the disk or partition. KByte is the total size of the disk or partition in kbytes. Capacity is the percentage of disk space used.

The function is asynchronous in the sense that it does not invoke a disk check, but returns the latest available value.

Returns [{"none",0,0}] if disksup is not available.

```
get_check_interval() -> MS
Types:
```

MS = int()

Returns the time interval, in milliseconds, for the periodic disk space check.

set_check_interval(Minutes) -> ok
Types:

Minutes = int()>=1

Changes the time interval, given in minutes, for the periodic disk space check.

The change will take effect after the next disk space check and is non-persist. That is, in case of a process restart, this value is forgotten and the default value will be used. See Configuration above.

```
get_almost_full_threshold() -> Percent
Types:
```

Percent = int()

Returns the threshold, in percent, for disk space utilization.

set_almost_full_threshold(Float) -> ok
Types:

```
Float = float(), 0=<Float=<1</pre>
```

Changes the threshold, given as a float, for disk space utilization.

The change will take effect during the next disk space check and is non-persist. That is, in case of a process restart, this value is forgotten and the default value will be used. See Configuration above.

See Also

alarm_handler(3), os_mon(3)

memsup

Erlang module

memsup is a process which supervises the memory usage for the system and for individual processes. It is part of the OS_Mon application, see os_mon(6). Available for Unix and Windows.

Periodically performs a memory check:

- If more than a certain amount of available system memory is allocated, as reported by the underlying operating system, the alarm {system_memory_high_watermark, []} is set.
- If any Erlang process Pid in the system has allocated more than a certain amount of total system memory, the alarm {process_memory_high_watermark, Pid} is set.

Alarms are reported to the SASL alarm handler, see alarm_handler(3). To set an alarm, alarm_handler:set_alarm(Alarm) is called where Alarm is either of the alarms specified above.

The alarms are cleared automatically when the alarm cause is no longer valid.

The function get_memory_data() can be used to retrieve the result of the latest periodic memory check.

There is also a interface to system dependent memory data, get_system_memory_data(). The result is highly dependent on the underlying operating system and the interface is targeted primarily for systems without virtual memory. However, the output on other systems is still valid, although sparse.

A call to get_system_memory_data/0 is more costly than a call to get_memory_data/0 as data is collected synchronously when this function is called.

The total system memory reported under UNIX is the number of physical pages of memory times the page size, and the available memory is the number of available physical pages times the page size. This is a reasonable measure as swapping should be avoided anyway, but the task of defining total memory and available memory is difficult because of virtual memory and swapping.

Configuration

The following configuration parameters can be used to change the default values for time intervals and thresholds:

```
memory_check_interval = int()>0
```

The time interval, in minutes, for the periodic memory check. The default is one minute.

```
system_memory_high_watermark = float()
```

The threshold, as percentage of system memory, for how much system memory can be allocated before the corresponding alarm is set. The default is 0.80 (80%).

process_memory_high_watermark = float()

The threshold, as percentage of system memory, for how much system memory can be allocated by one Erlang process before the corresponding alarm is set. The default is 0.05 (5%).

memsup_helper_timeout = int()>0

A timeout, in seconds, for how long the memsup process should wait for a result from a memory check. If the timeout expires, a warning message "OS_MON (memsup) timeout" is issued via error_logger and any pending, synchronous client calls will return a dummy value. Normally, this situation should not occur. There have been cases on Linux, however, where the pseudo file from which system data is read is temporarily unavailable when the system is heavily loaded.

The default is 30 seconds.

memsup_system_only = bool()

Specifies whether the memsup process should only check system memory usage (true) or not. The default is false, meaning that information regarding both system memory usage and Erlang process memory usage is collected.

It is recommended to set this parameter to false on systems with many concurrent processes, as each process memory check makes a traversal of the entire list of processes.

memsup_improved_system_memory_data = bool()

Determines the behaviour of the get_system_memory_data() function. When this configuration parameter is false, get_system_memory_data() behaves as it has done up until the point of the introduction of the configuration parameter. When set to true new tagged tuples are allowed in the result. Such new tuples may be introduced at any time without prior notice. The classification of cached_memory on Linux systems will also change so that more memory is classified as cached_memory.

Note:

This configuration parameter defaults false and will do so up until OTP 23. As of OTP 24 this configuration parameter will be removed and get_system_memory_data() will begin behaving as it does now when the configuration parameter has been set to true.

See config(4) for information about how to change the value of configuration parameters.

Exports

```
get_memory_data() -> {Total,Allocated,Worst}
Types:
    Total = Allocated = int()
```

```
Worst = {Pid, PidAllocated} | undefined
Pid = pid()
PidAllocated = int()
```

Returns the result of the latest memory check, where Total is the total memory size and Allocated the allocated memory size, in bytes.

Worst is the pid and number of allocated bytes of the largest Erlang process on the node. If memsup should not collect process data, that is if the configuration parameter memsup_system_only was set to true, Worst is undefined.

The function is normally asynchronous in the sense that it does not invoke a memory check, but returns the latest available value. The one exception if is the function is called before a first memory check is finished, in which case it does not return a value until the memory check is finished.

Returns $\{0, 0, \{pid(), 0\}\}$ or $\{0, 0, undefined\}$ if memsup is not available, or if all memory checks so far have timed out.

```
get_system_memory_data() -> MemDataList
Types:
    MemDataList = [{Tag, Size}]
    Tag = atom()
    Size = int()
```

Invokes a memory check and returns the resulting, system dependent, data as a list of tagged tuples, where Tag can be one of the following:

total_memory

The total amount of memory available to the Erlang emulator, allocated and free. May or may not be equal to the amount of memory configured in the system.

free_memory

The amount of free memory available to the Erlang emulator for allocation.

system_total_memory

The amount of memory available to the whole operating system. This may well be equal to total_memory but not necessarily.

buffered_memory

The amount of memory the system uses for temporary storing raw disk blocks.

cached_memory

The amount of memory the system uses for cached files read from disk.

total_swap

The amount of total amount of memory the system has available for disk swap.

free_swap

The amount of memory the system has available for disk swap.

Note that the order of the tuples in the resulting list is undefined and may change at any time.

All memory sizes are presented as number of bytes.

Returns the empty list [] if memsup is not available, or if the memory check times out.

Note:

On Linux the memory available to the emulator is cached_memory and buffered_memory in addition to free_memory.

The above describes how it works if the configuration parameter memsup_improved_system_memory_data has been set to false which currently also is the default behavior. If the configuration parameter is set to true the behavior is slightly changed:

- New tagged tuples may be added in the resulting list at any time.
- On Linux systems the following changes will be made:
 - A new tuple with the tag available_memory will be added to the result when this value is provided by the kernel. The available_memory value informs about the amount memory that is available for use if there is an increased memory need. This value is not based on a calculation of the other provided values and should give a better value of the amount of memory that actually is available than calculating a value based on the other values reported.
 - The classification of cached_memory is changed. Also memory marked as reclaimable in the kernel slab allocator will be added to the value presented as cached_memory.

Note:

As of OTP 24 memsup_improved_system_memory_data configuration parameter will be removed and get_system_memory_data() will begin behaving as it does now when the configuration parameter has been set to true.

```
get_os_wordsize() -> Wordsize
Types:
```

Wordsize = 32 | 64 | unsupported_os

Returns the wordsize of the current running operating system.

get_check_interval() -> MS
Types:

MS = int()

Returns the time interval, in milliseconds, for the periodic memory check.

set_check_interval(Minutes) -> ok

Types:

```
Minutes = int()>0
```

Changes the time interval, given in minutes, for the periodic memory check.

The change will take effect after the next memory check and is non-persistent. That is, in case of a process restart, this value is forgotten and the default value will be used. See Configuration above.

get_procmem_high_watermark() -> int()

Returns the threshold, in percent, for process memory allocation.

set procmem high watermark(Float) -> ok

Changes the threshold, given as a float, for process memory allocation.

The change will take effect during the next periodic memory check and is non-persistent. That is, in case of a process restart, this value is forgotten and the default value will be used. See Configuration above.

get_sysmem_high_watermark() -> int()

Returns the threshold, in percent, for system memory allocation.

set sysmem high watermark(Float) -> ok

Changes the threshold, given as a float, for system memory allocation.

The change will take effect during the next periodic memory check and is non-persistent. That is, in case of a process restart, this value is forgotten and the default value will be used. See Configuration above.

get_helper_timeout() -> Seconds

Types:

Seconds = int()

Returns the timeout value, in seconds, for memory checks.

set_helper_timeout(Seconds) -> ok
Types:

Seconds = int() (>= 1)

Changes the timeout value, given in seconds, for memory checks.

The change will take effect for the next memory check and is non-persistent. That is, in the case of a process restart, this value is forgotten and the default value will be used. See Configuration above.

memsup

See Also

alarm_handler(3), os_mon(3)

os_sup

os_sup

Erlang module

os_sup is a process providing a message passing service from the operating system to the error logger in the Erlang runtime system. It is part of the OS_Mon application, see os_mon(6). Available for Solaris and Windows.

Messages received from the operating system results in an user defined callback function being called. This function can do whatever filtering and formatting is necessary and then deploy any type of logging suitable for the user's application.

Solaris Operation

The Solaris (SunOS 5.x) messages are retrieved from the syslog daemon, syslogd.

Enabling the service includes actions which require root privileges, such as change of ownership and file privileges of an executable binary file, and creating a modified copy of the configuration file for syslogd. When os_sup is terminated, the service must be disabled, meaning the original configuration must be restored. Enabling/disabling can be done either outside or inside os_sup. See Configuration below.

Warning:

This process cannot run in multiple instances on the same hardware. OS_Mon must be configured to start os_sup on one node only if two or more Erlang nodes execute on the same machine.

The format of received events is not defined.

Windows Operation

The Windows messages are retrieved from the eventlog file.

The nteventlog module is used to implement os_sup. See nteventlog(3). Note that the start functions of nteventlog does not need to be used, as in this case the process is started automatically as part of the OS_Mon supervision tree.

OS messages are formatted as a tuple {Time, Category, Facility, Severity, Message}:

```
Time = {MegaSecs, Secs, MicroSecs}
```

A time stamp as returned by the BIF now().

```
Category = string()
```

Usually one of "System", "Application" or "Security". Note that the NT eventlog viewer has another notion of category, which in most cases is totally meaningless and therefore not imported into Erlang. What is called a category here is one of the main three types of events occurring in a normal NT system.

Facility = string()

The source of the message, usually the name of the application that generated it. This could be almost any string. When matching messages from certain applications, the version number of the application may have to be accounted for. This is what the NT event viewer calls "source".

```
Severity = string()
```

One of "Error", "Warning", "Informational", "Audit_Success", "Audit_Faulure" or, in case of a currently unknown Windows NT version "Severity_Unknown".

Message = string()

Formatted exactly as it would be in the NT eventlog viewer. Binary data is not imported into Erlang.

Configuration

os_sup_mfa = {Module, Function, Args}

The callback function to use. Module and Function are atoms and Args is a list of terms. When an OS message Msg is received, this function is called as apply(Module, Function, [Msg | Args]).

Default is {os_sup, error_report, [Tag]} which will send the event to the error logger using error_logger:error_report(Tag, Msg). Tag is the value of os_sup_errortag, see below.

```
os_sup_errortag = atom()
```

This parameter defines the error report type used when messages are sent to error logger using the default callback function. Default is std_error, which means the events are handled by the standard event handler.

```
os_sup_enable = bool()
```

Solaris only. Defines if the service should be enabled (and disabled) inside (true) or outside (false) os_sup. For backwards compatibility reasons, the default is true. The recommended value is false, as the Erlang emulator should normally not be run with root privileges, as is required for enabling the service.

```
os_sup_own = string()
```

Solaris only. Defines the directory which contains the backup copy and the Erlang specific configuration files for syslogd, and a named pipe to receive the messages from syslogd. Default is "/etc".

os_sup_syslogconf = string()

Solaris only. Defines the full name of the configuration file for syslogd. Default is "/etc/syslog.conf".

Exports

enable() -> ok | {error, Res}
enable(Dir, Conf) -> ok | {error, Error}
Types:

Dir = Conf = Res = string()

Enables the os_sup service. Needed on Solaris only.

If the configuration parameter os_sup_enable is false, this function is called automatically by os_sup, using the values of os_sup_own and os_sup_syslogconf as arguments.

If os_sup_enable is true, this function must be called **before** OS_Mon/os_sup is started. Dir defines the directory which contains the backup copy and the Erlang specific configuration files for syslogd, and a named pipe to receive the messages from syslogd. Defaults to "/etc". Conf defines the full name of the configuration file for syslogd. Default is "/etc/syslog.conf".

Results in a OS call to:

<PRIVDIR>/bin/mod_syslog otp Dir Conf

where <PRIVDIR> is the priv directory of OS_Mon, code:priv_dir(os_mon).

Returns ok if this yields the expected result "0", and {error, Res} if it yields anything else.

Note:

This function requires root privileges to succeed.

```
disable() -> ok | {error, Res}
disable(Dir, Conf) -> ok | {error, Error}
Types:
   Dir = Conf = Res = string()
```

Disables the os_sup service. Needed on Solaris only.

If the configuration parameter of gup, on ablaits falge, this function is called a

If the configuration parameter os_sup_enable is false, this function is called automatically by os_sup, using the same arguments as when enable/2 was called.

If os_sup_enable is true, this function must be called **after** OS_Mon/os_sup is stopped. Dir defines the directory which contains the backup copy and the Erlang specific configuration files for syslogd, and a named pipe to receive the messages from syslogd. Defaults to "/etc". Conf defines the full name of the configuration file for syslogd. Default is "/etc/syslog.conf".

Results in a OS call to:

<PRIVDIR>/bin/mod_syslog nootp Dir Conf

where <PRIVDIR> is the priv directory of OS_Mon, code:priv_dir(os_mon).

Returns ok if this yields the expected result "0", and {error, Res} if it yields anything else.

Note:

This function requires root privileges to succeed.

See also

error_logger(3), os_mon(3)

syslogd(1M), syslog.conf(4) in the Solaris documentation.

nteventlog

Erlang module

nteventlog provides a generic interface to the Windows event log. It is part of the OS_Mon application, see os_mon(6).

This module is used as the Windows backend for os_sup. See os_sup(3).

To retain backwards compatibility, this module can also be used to start a standalone nteventlog process which is not part of the OS_Mon supervision tree. When starting such a process, the user has to supply an identifier as well as a callback function to handle the messages.

The identifier, an arbitrary string, should be reused whenever the same application (or node) wants to start the process. nteventlog is informed about all events that have arrived to the eventlog since the last accepted message for the current identifier. As long as the same identifier is used, the same eventlog record will not be sent to nteventlog more than once (with the exception of when graved system failures arise, in which case the last records written before the failure may be sent to Erlang again after reboot).

If the event log is configured to wrap around automatically, records that have arrived to the log and been overwritten when nteventlog was not running are lost. However, it detects this state and loses no records that are not overwritten.

The callback function works as described in $os_sup(3)$.

Exports

```
start(Identifier, MFA) -> Result
start_link(Identifier, MFA) -> Result
Types:
    Identifier = string() | atom()
    MFA = {Mod, Func, Args}
    Mod = Func = atom()
    Args = [term()]
    Result = {ok, Pid} | {error, {already_started, Pid}}
    Pid = pid()
```

This function starts the standalone nteventlog process and, if start_link/2 is used, links to it.

Identifier is an identifier as described above.

MFA is the supplied callback function. When nteventlog receives information about a new event, this function will be called as apply(Mod, Func, [Event|Args]) where Event is a tuple

```
stop() -> stopped
Types:
```

Result = stopped

Stops nteventlog. Usually only used during development. The server does not have to be shut down gracefully to maintain its state.

See Also

os_mon(6), os_sup(3)

Windows NT documentation