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OS\_Mon

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OS\_Mon 2.8  
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**March 3, 2023**

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# 1 Reference Manual

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

## os\_mon

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### 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:

$$\text{PercentLoad} = 100 * (1 - D/(D + \text{Load}))$$

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:

## cpu\_sup

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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

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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.

## Data Types

`time()`

Supported units:

`integer()`  $\geq 1$

The time interval in minutes.

`{TimeUnit, Time}`

The time interval `Time` in a time unit specified by `TimeUnit` where `TimeUnit` is of the type `erlang:time_unit()` and `Time` is a positive integer. The time interval needs to be at least one millisecond long.

## Configuration

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

`disk_space_check_interval = time()`

The time interval 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 stripped-down 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(Time)` -> ok

Types:

```
Time = time()
```

Changes the time interval 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
```

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

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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.

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 is if 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` currently 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.

`available_memory`

Informs about the amount memory that is available for increased usage 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. This value is currently only present on newer Linux kernels. If this value is not available on Linux, you can use the sum of `cached_memory`, `buffered_memory`, and `free_memory` as an approximation.

`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. On Linux, also memory marked as reclaimable in the kernel slab allocator will be added to this value.

`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:

Note that new tagged tuples may be introduced in the result at any time without prior notice

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.

`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.

## See Also

`alarm_handler(3)`, `os_mon(3)`

## 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 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