

## Chapter 7 Node Js OS

### Node.js OS

Node.js OS provides some basic operating-system related utility functions. Let's see the list generally used functions or methods.

#### 1. **os.arch()**

This method is used to fetch the operating system CPU architecture.

#### 2. **os.cpus()**

This method is used to fetch an array of objects containing information about each cpu/core installed: model, speed (in MHz), and times (an object containing the number of milliseconds the cpu/core spent in: user, nice, sys, idle, and irq).

#### 3. **os.endianness()**

This method returns the endianness of the cpu. Its possible values are 'BE' for big endian or 'LE' for little endian.

#### 4. **os.freemem()**

This methods returns the amount of free system memory in bytes.

#### 5. **os.homedir()**

This method returns the home directory of the current user.

#### 6. **os.hostname()**

This method is used to returns the hostname of the operating system.

#### 7. **os.loadavg()**

This method returns an array containing the 1, 5, and 15 minute load averages. The load average is a time fraction taken by system activity, calculated by the operating system and expressed as a fractional number.

#### 8. **os.networkinterfaces()**

This method returns a list of network interfaces.

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## 9. os.platform()

This method returns the operating system platform of the running computer i.e. 'darwin', 'win32', 'freebsd', 'linux', 'sunos' etc.

## 10. os.release()

This method returns the operating system release.

## 11. os.tmpdir()

This method returns the operating system's default directory for temporary files.

## 12. os.totalmem()

This method returns the total amount of system memory in bytes.

## 13. os.type()

This method returns the operating system name. For example 'linux' on linux, 'darwin' on os x and 'windows\_nt' on windows.

## 14. os.uptime()

This method returns the system uptime in seconds.

## 15. os.userinfo([options])

This method returns a subset of the password file entry for the current effective user.

### Node.js OS Example 1

In this example, we are including some basic functions. Create a file named os\_example1.js having the following code:

```
const os=require('os');
console.log("os.freemem(): \n",os.freemem());
console.log("os.homedir(): \n",os.homedir());
console.log("os.hostname(): \n",os.hostname());
console.log("os.endianness(): \n",os.endianness());
console.log("os.loadavg(): \n",os.loadavg());
console.log("os.platform(): \n",os.platform());
console.log("os.release(): \n",os.release());
console.log("os.tmpdir(): \n",os.tmpdir());
console.log("os.totalmem(): \n",os.totalmem());
console.log("os.type(): \n",os.type());
console.log("os.uptime(): \n",os.uptime());
```

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