# CPU信息查询

## 请求地址：

http://ip:port/information/getCpuInfo

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | JSONArray | 查询结果，CPU支持多少线程，数组就会有多少元素。 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| mhz | String | CPU总量MHz |
| vendor | String | CPU制造商 |
| model | String | CPU型号 |
| cacheSize | String | 缓冲存储器数量 |
| user | String | 用户使用率 |
| sys | Stirng | 系统使用率 |
| wait | String | 当前等待率 |
| nice | String | 当前错误率 |
| idle | String | 当前空闲率 |
| combined | String | 总的使用率 |

## 响应实例

|  |
| --- |
| {  "code": 0,  "array": [{  "wait": "0.0%",  "cacheSize": -1,  "idle": "79.7%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "20.3%",  "sys": "12.5%",  "user": "7.8%",  "mhz": 1992,  "nice": "0.0%"  }, {  "wait": "0.0%",  "cacheSize": -1,  "idle": "99.2%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "0.7%",  "sys": "0.7%",  "user": "0.0%",  "mhz": 1992,  "nice": "0.0%"  }, {  "wait": "0.0%",  "cacheSize": -1,  "idle": "89.0%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "10.9%",  "sys": "3.1%",  "user": "7.8%",  "mhz": 1992,  "nice": "0.0%"  }, {  "wait": "0.0%",  "cacheSize": -1,  "idle": "100.0%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "0.0%",  "sys": "0.0%",  "user": "0.0%",  "mhz": 1992,  "nice": "0.0%"  }, {  "wait": "0.0%",  "cacheSize": -1,  "idle": "92.9%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "7.0%",  "sys": "1.5%",  "user": "5.4%",  "mhz": 1992,  "nice": "0.0%"  }, {  "wait": "0.0%",  "cacheSize": -1,  "idle": "98.4%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "1.5%",  "sys": "0.7%",  "user": "0.7%",  "mhz": 1992,  "nice": "0.0%"  }, {  "wait": "0.0%",  "cacheSize": -1,  "idle": "62.5%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "37.5%",  "sys": "25.8%",  "user": "11.7%",  "mhz": 1992,  "nice": "0.0%"  }, {  "wait": "0.0%",  "cacheSize": -1,  "idle": "92.9%",  "vendor": "Intel",  "model": "Core(TM) i7-8550U CPU @ 1.80GHz",  "combined": "7.0%",  "sys": "4.6%",  "user": "2.3%",  "mhz": 1992,  "nice": "0.0%"  }]  } |

# 获取内存信息

## 请求地址

http://ip:port/information/getMemoryInfo

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| total | String | 内存总量（MB） |
| user | String | 当前内存使用量(MB) |
| free | String | 当前内存剩余用量(MB) |
| swapTotal | String | 交换区总量(MB) |
| swapUsed | String | 交换区使用量(MB) |
| swapFree | String | 交换区剩余量(MB) |

## 响应示例

|  |
| --- |
| {  "swapFree": "2839",  "total": "16226",  "code": 0,  "swapUsed": "14431",  "swapTotal": "17270",  "free": "5290",  "user": "10936"  } |

# 获取系统信息

## 请求地址

http://ip:port/information/getSystemInfo

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| arch | String | 操作系统 |
| cpuEndian | String | 操作系统的cpuEndian |
| dataModel | String | 操作系统dataModel |
| description | String | 操作系统的描述 |
| name | String | 操作系统类型 |
| patchLevel | String |  |
| vendor | String | 操作系统厂商 |
| vendorCodeName | String | 操作系统厂商代码 |
| vendorName | String | 厂商名称 |
| vendorVersion | String |  |
| version | String | 系统版本 |

## 响应示例

|  |
| --- |
| {  "vendorVersion": "8f",  "code": 0,  "vendorCodeName": "",  "vendor": "Microsoft",  "dataModel": "64",  "name": "Win32",  "description": "Microsoft \f",  "arch": "x64",  "patchLevel": "",  "cpuEndian": "little",  "vendorName": "\f",  "version": "10.0"  } |

# 获取系统用户信息

## 请求地址

http://ip:port/information/getUserInfo

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | JSONArray | 系统当前有几个用户（例如多个远程连接过来的用户），就会有多少个元素。 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| user | String | 登录用户 |
| host | String | 登录ip |
| device | String | 控制台 |
| time | String | 登录时间（返回LINUX时间戳） |

## 响应示例

|  |
| --- |
| {  "code": 0,  "array": [{  "host": "NT AUTHORITY",  "time": 0,  "user": "LOCAL SERVICE",  "device": "console"  }, {  "host": "NT AUTHORITY",  "time": 0,  "user": "NETWORK SERVICE",  "device": "console"  }, {  "host": "ALEXYANG",  "time": 1569227605,  "user": "15659",  "device": "console"  }, {  "host": "NT AUTHORITY",  "time": 0,  "user": "SYSTEM",  "device": "console"  }]  } |

# 获取文件系统信息

## 请求地址

http://ip:port/information/getFileSystemInfo

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | String | 返回系统磁盘信息 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| devName | String | 设备名称 |
| dirName | String | 路径 |
| flags | String | 标记 |
| sysTypeName | String | 文件系统类型 |
| typeName | String | 类型名称 |
| type | String | 类型 |
| total | String | 总空间 |
| free | String | 剩余 |
| avail | String | 可用 |
| used | String | 已用 |
| percent | String | 使用率 |
| diskReads | String | 磁盘读取总字节数 |
| diskWrites | String | 磁盘写入总字节数 |

## 响应示例

|  |
| --- |
| {  "code": 0,  "array": [{  "TypeName": "local",  "DevName": "C:\\",  "Avail": "27385MB",  "Percent": "67.0%",  "DirName": "C:\\",  "Flags": 0,  "Free": "27385MB",  "Type": 2,  "DiskWrites": 301137,  "SysTypeName": "NTFS",  "Used": "54534MB",  "Total": "81919MB",  "DiskReads": 387723  }, {  "TypeName": "local",  "DevName": "D:\\",  "Avail": "275722MB",  "Percent": "31.0%",  "DirName": "D:\\",  "Flags": 0,  "Free": "275722MB",  "Type": 2,  "DiskWrites": 228786,  "SysTypeName": "NTFS",  "Used": "118645MB",  "Total": "394367MB",  "DiskReads": 184269  }]  } |

# 获取网络信息

## 请求地址

http://ip:port/information/getNetworkInfo

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | JSONArray | 返回当前查询到的计算机网络信息数组 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| name | String | 网络名称 |
| address | String | IP地址 |
| netmask | String | 掩码 |
| rxPackets | String | 接收的总包裹数 |
| txPackets | String | 发送的总包裹数 |
| rxBytes | String | 接收的总字节数 |
| txBytes | String | 发送的总字节数 |
| rxErrors | String | 接收到的错误包数 |
| txErrors | String | 发送的错误包数 |
| rxDropped | String | 接收时丢包数 |
| txDropped | String | 发送时丢包数 |

## 响应示例

|  |
| --- |
| {  "code": 0,  "array": [{  "rxPackets": 2431314,  "txErrors": 0,  "address": "192.168.35.176",  "rxBytes": 1338107134,  "txBytes": 121246056,  "netmask": "255.255.255.0",  "name": "eth12",  "txPackets": 839532,  "txDropped": 0,  "rxErrors": 0,  "rxDropped": 0  }, {  "rxPackets": 0,  "txErrors": 0,  "address": "0.0.0.0",  "rxBytes": 0,  "txBytes": 0,  "netmask": "0.0.0.0",  "name": "eth13",  "txPackets": 0,  "txDropped": 0,  "rxErrors": 0,  "rxDropped": 0  },{  "rxPackets": 0,  "txErrors": 0,  "address": "192.168.182.1",  "rxBytes": 0,  "txBytes": 1924,  "netmask": "255.255.255.0",  "name": "eth15",  "txPackets": 1924,  "txDropped": 0,  "rxErrors": 0,  "rxDropped": 0  }  ]  } |

# 获取以太网信息

## 请求地址

http://ip:port/information/getEthernetInfo

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | JSONArray | 以太网络信息数组 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| name | String | 网络名称 |
| address | String | IP地址 |
| broadcast | String | 广播地址 |
| hwaddr | String | MAC地址 |
| netmask | String | 网络掩码 |
| description | String | 描述 |
| type | String | 网络类型 |

## 响应示例

|  |
| --- |
| {  "code": 0,  "array": [ {  "broadcast": "192.168.35.255",  "hwaddr": "00:E0:4C:6F:5C:1D",  "address": "192.168.35.176",  "netmask": "255.255.255.0",  "name": "eth12",  "description": "Realtek USB GbE Family Controller",  "type": "Ethernet"  }, {  "broadcast": "192.168.182.255",  "hwaddr": "00:50:56:C0:00:01",  "address": "192.168.182.1",  "netmask": "255.255.255.0",  "name": "eth15",  "description": "VMware Virtual Ethernet Adapter for VMnet1",  "type": "Ethernet"  }, {  "broadcast": "192.168.73.255",  "hwaddr": "00:50:56:C0:00:08",  "address": "192.168.73.1",  "netmask": "255.255.255.0",  "name": "eth16",  "description": "VMware Virtual Ethernet Adapter for VMnet8",  "type": "Ethernet"  }]  } |

# 获取CPU历史数据

## 请求地址

http://ip:port/information/getCpuHistoryData

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | JSONArray | CPU历史数据 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| date | String | 日期 |
| peak | Int | 峰值 |
| average | Int | 平均值 |

## 响应示例

|  |
| --- |
| {  "code": 0,  "array": [{  "date": "2019-08-25",  "average": 16,  "peak": 38  }, {  "date": "2019-08-26",  "average": 20,  "peak": 43  }, {  "date": "2019-08-27",  "average": 24,  "peak": 47  }, {  "date": "2019-08-28",  "average": 25,  "peak": 39  }  ]  } |

# 获取网络历史信息

## 请求地址

http://ip:port/information/getNetworkHistoryData

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | JSONArray | 网络历史数据 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| date | String | 日期 |
| write | Long | 写入字节数总量 |
| read | Long | 读取字节数总量 |

## 响应示例

|  |
| --- |
| {  "code": 0,  "array": [{  "date": "2019-08-25",  "read": 11892,  "write": 33889  }, {  "date": "2019-08-26",  "read": 13873,  "write": 41600  }, {  "date": "2019-08-27",  "read": 25425,  "write": 31688  }, {  "date": "2019-08-28",  "read": 10586,  "write": 37855  }  ]  } |

# 获取系统进程信息

该接口需要获取系统的所有进程信息，然后进行排序，最后返回。获取进程信息的流程可能会耗时比较久，如果进行实时监控，建议刷新间隔大于5秒以上。

## 请求地址

http://ip:port/information/getNetworkHistoryData

## 请求参数

无

## 公共响应参数

|  |  |  |
| --- | --- | --- |
| code | String | 0 – 成功 1 – 失败 |
| msg | String | 查询失败时返回失败信息 |
| array | JSONArray | 进程信息 |

## 响应参数

|  |  |  |
| --- | --- | --- |
| pid | String | 进程ID |
| user | String | 所属用户,UNKNOWN表示未知 |
| startTime | String | 开始时间，UNKNOWN表示未知 |
| virt | String | 虚拟内存 |
| res | String | 常驻内存 |
| realRes | Double | 常驻内存转换单位为kb |
| shr | String | 共享内存 |
| status | String | 进程状态（SLEEP = ‘S’;RUN = ‘R’;STOP = ‘T’;ZOMBIE = ‘Z’;IDLE = ‘D’;） |
| time | String | 总时长，UNKNOWN表示未知 |
| description | String | 进程归属描述 |

## 响应示例

|  |
| --- |
| {  "code": 0,  "array": [{  "res": "1.5G",  "virt": "3.7G",  "description": "D:\\Program Files (x86)\\IntelliJ IDEA 2019.1.2\\bin\\idea64.exe",  "pid": "2844",  "startTime": "08:32",  "realRes": 1572864.0,  "time": "6:22",  "shr": "-",  "user": "15659",  "status": "R"  }, {  "res": "289M",  "virt": "1.1G",  "description": "C:\\Program Files (x86)\\Google\\Chrome\\Application\\chrome.exe",  "pid": "2868",  "startTime": "08:45",  "realRes": 295936.0,  "time": "7:56",  "shr": "-",  "user": "15659",  "status": "R"  }  ]  } |