RHEL /proc/meminfo

Red Hat Enterprise Linux 5, 6 and 7 `/proc/meminfo`

Environment

- Red Hat Enterprise Linux (RHEL) 5
- Red Hat Enterprise Linux (RHEL) 6
- Red Hat Enterprise Linux (RHEL) 7

RHEL5

free -k output (RHEL 5 and RHEL 6):

```
              total       used       free     shared    buffers     cached
Mem:        7778104    2971960    4806144          0     211756    1071092
-/+ buffers/cache:     1689112    6088992
Swap:       4194296          0    4194296
```

free -k output (RHEL 7):

```
              total        used        free      shared   buff/cache
available
Mem:        1012952      252740      158732       11108       601480
543584
Swap:       1048572        5380     1043192
```

/proc/meminfo   .

```
MemTotal:        7778104 kB
MemFree:         4806144 kB
Buffers:          211756 kB
Cached:          1071092 kB
SwapTotal:       4194296 kB
SwapFree:        4194296 kB
```

RHEL7   .   -/+ buffers/cache
            .

```
MemAvailable:        543584 kB
```

free -k   /proc/meminfo

free   /proc/meminfo   .

free output	/proc/meminfo
Mem: total	MemTotal
Mem: used	MemTotal - MemFree
Mem: free	MemFree
Mem: shared (. .)	N / A
Mem: buffers	Buffers
Mem: cached	Cached
-/+ buffers/cache: used	MemTotal - (MemFree + Buffers + Cached)
-/+ buffers/cache: free	MemFree + Buffers + Cached
Swap: total	SwapTotal
Swap: used	SwapTotal - SwapFree
Swap: free	SwapFree

RHEL 5, RHEL 6 and RHEL 7

- MemTotal:
- MemFree:
- Buffers: ,   .
                  .
- Cached: (   )
- SwapCached: . (
                                                                        I / O
                  .)

RHEL 7 only

- MemAvailable: .

RHEL 5, RHEL 6 and RHEL 7

- Active:
- Inactive:

RHEL 6 and RHEL 7 only

- Active(anon):
- Inactive(anon):
- Active(file):
- Inactive(file):
- Unevictable: .
- Mlocked: `mlock()`   . Mlocked
  Univictable   .

RHEL 5, RHEL 6 and RHEL 7

- SwapTotal:
- SwapFree:
- Dirty:
- Writeback:
- AnonPages:
- Mapped: mmaped
- Slab:
- PageTables: .

                                                        .

- NFS_Unstable: NFS
- Bounce: `bounce buffer`
- CommitLimit: (`vm.overcommit_ratio`)

            .

        (`vm.overcommit_memory`   2).
- Committed_AS: .

                                            .

- VmallocTotal: vmalloc
- VmallocUsed: vmalloc
- VmallocChunk: vmalloc
- HugePages_Total: (`vm.nr_hugepages`   )
- HugePages_Free: hugepage
- HugePages_Rsvd: hugepage
    .
- Hugepagesize: hugepage   (2MB)

RHEL 6 and RHEL 7 only

- Shmem: (RAM   , SHSEM
  SYS-V-IPC   BSD   )
- SReclaimable: Slab   (   )
- SUnreclaim: Slab
- KernelStack: .   .
- WritebackTmp: FUSE
- HardwareCorrupted: RAM