

The Gestalt Function on the RaQ 3 Server Appliance Family

1 About the Gestalt Function

The `gestalt` function is a perl script that enables you to get information about hardware and software components available on the RaQ 3. The `gestalt` function provides the following types of information:

- Default language, such as English or Japanese
- Hardware details such as disk size, memory configuration, and processor information
- Dynamic information such as number of sites, users, and system up time
- Whether a feature such as anonymous FTP is available

Note

The `gestalt` function consolidates information that is available through a number of other means. Using `gestalt`, you can get all the information about a system or determine specific information.

See “Examples of the Gestalt Function” on page 3 for more information.

This technical note can be found in `ftp://ftp/cobaltnet.com/pub/developers/DTN3-0-0.pdf`

2 Using the Gestalt Function

To use the `gestalt` function:

- 1) Use `telnet` or equivalent, such as SSH, console connection, or a script to connect to the RaQ3 as `admin`.
- 2) Type `su` to become the superuser. You are prompted for the administrator password.
- 3) Type:

```
/usr/local/sbin/cobalt_gestalt
```

The results are displayed on the monitor. You can save these results to a file or use a search command such as `grep` to find a particular item. For example, to find information about the disks on your RaQ 3 server, type:

```
/usr/local/sbin/cobalt_gestalt | grep DISK
```

Following is an example of the output generated by the `gestalt` command:

```
COBALT GESTALT VERSION = 1.0
LINUX VERSION = 2.2.12C3
BOOT METHOD = disk
BOOT DEVICE = hda1
ROM REVISION = 2.3.0
SERIAL NUMBER = 2H01AM9430278
CPU0 MODEL = AMD-K6(tm) 3D processor
CPU0 MHZ = 298.807896
CPUNUM = 1
UPTIME = 3 days, 3:51
MEMORY = 517532 kB
VIRTUAL MEMORY = 131536 kB
LANGUAGE = en_US
```



```
REVISION = 3.148
MODEL = 3000R
DISKNUM = 1
DISK0 TYPE = IDE
DISK0 SIZE = 18567 MB
DISK0 VOLTABLE = [/dev/hda1(726 MB)] [/dev/hda3(194 MB)] [/dev/hda4(17647 MB)]
ETH0 HWADDR = 00:10:E0:00:AD:91
ETH0 IPADDR = 10.9.8.77
ETH0 BCAST = 10.9.255.255
ETH0 NETMASK = 255.255.0.0
ETH1 HWADDR = 00:10:E0:00:AD:90
ETHNUM = 2
SITENUM = 1
USERNUM = 1
COBALT FEATURE scsi = yes
COBALT SOFTWARE = [Cobalt OS Release 5.0] [RaQ3-Update-OS Release 1.0]
COBALT SSL US EXPORTABLE = yes
COBALT FEATURE networker = on
COBALT FEATURE telnetConfig = on
COBALT FEATURE dhcpd = off
COBALT FEATURE pagebuilder = off
COBALT FEATURE www = on
COBALT FEATURE mx = on
COBALT FEATURE gated = on
COBALT FEATURE dns = on
COBALT FEATURE nfs = off
COBALT FEATURE securetty = on
COBALT FEATURE arkeia = on
COBALT FEATURE atalk = off
COBALT FEATURE fpx = on
COBALT FEATURE siteAdminRedirect = on
COBALT FEATURE users = on
COBALT FEATURE ntp = off
COBALT FEATURE mon_textdb_only = off
COBALT FEATURE search = off
COBALT FEATURE anonFTP = on
COBALT FEATURE specialHomeSkel = off
COBALT FEATURE viewGroups = off
COBALT FEATURE cobaltHomePage = off
COBALT FEATURE warnRootOnly = on
COBALT FEATURE vsites = on
COBALT FEATURE pam = on
COBALT FEATURE discuss = off
COBALT FEATURE docorg = off
COBALT FEATURE groups = on
COBALT FEATURE smb = off
COBALT FEATURE mail = on
COBALT FEATURE nat = off
COBALT FEATURE squid = off
COBALT FEATURE autoGenWebUsage = off
COBALT FEATURE cobaltRedirect = off
COBALT FEATURE backups = on
COBALT FEATURE vmachine = on
COBALT FEATURE mon_port_testing = on
COBALT FEATURE viewUsers = off
COBALT FEATURE usersCGIInWizard = on
```

```
COBALT FEATURE privatedirs = off
COBALT FEATURE telnetDefault = on
COBALT FEATURE ssl = off
COBALT FEATURE siteManagement = on
COBALT FEATURE adm = on
COBALT FEATURE bind8 = on
COBALT FEATURE throttle = off
COBALT FEATURE personalRedirect = on
COBALT FEATURE webRequests = on
COBALT FEATURE usersAddUser = off
COBALT FEATURE adminRedirect = on
COBALT FEATURE quotas = on
COBALT FEATURE snmp = on
COBALT FEATURE defaultUserNameGen = on
COBALT FEATURE groupdirs = on
COBALT FEATURE proftpd = on
```

3 Examples of the Gestalt Function

Following are examples of the type of system information that you can determine using the `gestalt` function. The response to each command is shown below the command.

To determine the default language, type:

```
/usr/local/sbin/cobalt_gestalt | grep LANGUAGE
LANGUAGE = en_US
```

To determine dynamic information such as number of sites, users, and system up time, type:

```
/usr/local/sbin/cobalt_gestalt | grep SITENUM
SITENUM = 1
/usr/local/sbin/cobalt_gestalt | grep USERNUM
USERNUM = 2
/usr/local/sbin/cobalt_gestalt | grep UPTIME
UPTIME = 11 days, 6:03
```

To determine hardware details such as disk size, memory configuration, processor information, type:

```
/usr/local/sbin/cobalt_gestalt | grep "DISK0 SIZE"
DISK0 SIZE = 18567 MB
/usr/local/sbin/cobalt_gestalt | grep MEMORY
MEMORY = 517532 kB
VIRTUAL MEMORY = 131536 kB
/usr/local/sbin/cobalt_gestalt | grep "CPU0 MODEL"
CPU0 MODEL = AMD-K6(tm) 3D processor
```

Note

You must use quotation marks when you type a variable name with a space in it, for example, "CPU0 MODEL."

To determine whether anonymous FTP is supported, type:

```
/usr/local/sbin/cobalt_gestalt | grep anonFTP
COBALT FEATURE anonFTP = on
```