

| /etc/inittab | | UNIX Shell: | N/A |
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| Description: | Controls process dispatching. Used by <i>init</i> . | | |
| Syntax: | <i>id:rstate:action:process</i> | | |
| <i>id</i> | Specifies a unique identifier for the entry, one to four characters. | | |
| <i>rstate</i> | Specifies the run level for which the entry applies. | | |
| <i>action</i> | Specifies how to handle the process field. The following are available: | | |
| <i>respawn</i> | Starts the process if it does not exist. | | |
| <i>wait</i> | Starts the process and wait's for it to terminate. | | |
| <i>once</i> | Starts the process once. | | |
| <i>boot</i> | Starts the process at boot time. | | |
| <i>bootwait</i> | Same as <i>boot</i> but waits for process to terminate. | | |
| <i>powerfail</i> | Starts the process when the UPS signals that power is down. | | |
| <i>powerwait</i> | Same as <i>powerfail</i> but waits for process to terminate. | | |
| <i>off</i> | Does nothing. | | |
| <i>ondemand</i> | Starts the process when an ondemand run level is called. Does not change run level. | | |
| <i>initdefault</i> | Specifies the default run level of the system. | | |
| <i>sysinit</i> | Starts the process before accessing the console. Completes before continuing. | | |
| <i>powerokwait</i> | Starts the process when the UPS signals that power is restored. | | |
| <i>powerfailnow</i> | Starts the process when the UPS signals that the battery is almost empty. | | |
| <i>ctrlaltdel</i> | Starts the process when Ctrl+Alt+Del is pressed. | | |
| <i>kbrequest</i> | Starts the process when a special key combination is pressed. | | |
| <i>process</i> | Specifies a command. | | |
| File Name: | <i>inittab</i> | Directory: | <i>/etc/</i> Type: Text File |
| <i>id:3:initdefault:</i> | | Sets run level 3 as the default. | |
| <i>ca::ctrlaltdel:/sbin/shutdown -t3 -r now</i> | | Shuts down the system if Ctrl+Alt+Del is pressed. | |
| <i>1:2345:respawn:/sbin/mingetty tty1</i> | | Restarts the terminal if it dies. | |

| /etc/lilo.conf | | UNIX Shell: | N/A |
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| Description: | Is the configuration file used by the Linux Loader while booting. | | |
| backup=file | <p>The following keywords are used in the global section.</p> <p>Specifies where the original boot sector should be copied.</p> <p>Specifies the boot device, e.g. a hard drive partition.</p> <p>Specifies changes to partition type numbers at boot.</p> <p>Merges read requests to speed up load time.</p> <p>Specifies the default boot label.</p> <p>Specifies the delay in tenths of a second until the default image is booted.</p> <p>Specifies non-standard parameters for a disk.</p> <p>Specifies the disk parameter table (default is /etc/disktab).</p> <p>Adjusts 3D addresses in partition tables.</p> <p>Same as backup but overwrites a backup if it exists.</p> <p>Ignores corrupt partition tables.</p> <p>Installs the specified file as the boot sector (default is /boot/boot.b).</p> <p>Generates linear sector addresses.</p> <p>Records boot lines as defaults for the next boot.</p> <p>Specifies the location of the map file (default is /boot/map).</p> <p>Specifies a boot message.</p> <p>Disables warnings.</p> <p>Same as optional in the per-image section but applies to all images.</p> <p>Same as password in the per-image section but applies to all images.</p> <p>Forces entering the boot prompt.</p> <p>Same as password in the per-image section but applies to all images.</p> <p>Enables control from a serial line.</p> <p>Specifies a timeout in tenths of a second for keyboard input.</p> <p>Verbose mode. Shows more information. Max level is 5.</p> <p>The following keywords are used in the per-image section</p> | | |
| boot=device | | | |
| change-rules | | | |
| compact | | | |
| default=label | | | |
| delay=time | | | |
| disk=device | | | |
| disktab=file | | | |
| fix-table | | | |
| force-backup=file | | | |
| ignore-table | | | |
| install=boot-sector | | | |
| linear | | | |
| lock | | | |
| map=file | | | |
| message=file | | | |
| nowarn | | | |
| optional | | | |
| password=password | | | |
| prompt | | | |
| restricted | | | |
| serial=parameters | | | |
| timeout=time | | | |
| verbose=level | | | |

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| <i>image=path</i> | Specifies the boot image. |
| <i>other=path</i> | Specifies an arbitrary system to boot. |
| <i>range=start-end</i> | Specifies a range of sectors to map. Used with <i>image</i> . |
| <i>loader=chain-loader</i> | Specifies the chain loader. Used with <i>other</i> . |
| <i>table=device</i> | Specifies the device with the partition table. Used with <i>other</i> . |
| <i>unsafe</i> | Disables sanity checks, e.g. partition table check. Used with <i>other</i> . |
| <i>label=name</i> | Specifies a name for the image. |
| <i>alias=name</i> | Specifies a second name for the image. |
| <i>lock</i> | Records boot lines as defaults for the next boot. |
| <i>optional</i> | Omits the image if it is not available. |
| <i>password=password</i> | Protects the image with a password. |
| <i>restricted</i> | Requires a password only if parameters are specified on the command line. |
| <i>append=string</i> | The following keywords are for the kernel Appends parameters that will be passed on to the kernel. |
| <i>literal=string</i> | Same as <i>append</i> but omits everything else. |
| <i>ramdisk=size</i> | Specifies the size of the RAM disk. |
| <i>read-only</i> | Specifies the root file system as read-only. |
| <i>read-write</i> | Specifies the root file system as read-write. |
| <i>root=device</i> | Specifies the device to be mounted as root. |
| <i>vga=mode</i> | Specifies the VGA text mode to be used during boot. |
| File Name: | <i>lilo.conf</i> |
| Directory: | <i>/etc/</i> |
| Type: | Text File |

| <i>/etc/xinetd.conf</i> | | UNIX Shell: | Bash shell (bash) |
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| Description: | Contains the configuration for the extended internet services started by the <i>xinetd</i> command. | | |
| Text syntax | <i>service name</i> { <i>attribute operator values...</i> } <i>service name</i> <i>attribute</i> <i>id</i> <i>type</i> RPC INTERNAL UNLISTED <i>flags</i> REUSE INTERCEPT NORETRY IDONLY NAMEINARGS NODELAY DISABLE <i>disable</i> <i>socket_type</i> stream dgram raw seqpacket <i>protocol</i> <i>wait</i> =yes =no <i>user</i> <i>group</i> | | |
| | <i>service name</i> { <i>attribute operator values...</i> } Specifies the name of a service. Specifies an attribute to the service. The following attributes can be combined. Identifies a unique service. By default the <i>id</i> the same as the service name. Specifies the type of service. Combine any of the following. Specifies that this is an RPC service. Specifies that this is an service provided by <i>xinetd</i> . Specifies the service is not listed in a standard system file. Use any combination of the following. Sets the SO_REUSEADDR flag on the service socket. Specifies to verify that information are coming from accepted sources. Specifies not to attempt retry in case of a fork failure. Accepts connections only if the remote host runs an identification server. Allows you to put the server name in the place for the server argument. Sets the TCP_NODELAY flag if it is a TCP server. Disables the service and overrides the enable directive. Disables the service and overrides the enable directive. Sets the socket type to one of the following Specifies that it is a stream-based service. Specifies that it is a datagram-based service. Specifies the service needs direct IP access. Specifies the service needs reliable sequential datagram transmission. Specifies the protocol that the service uses. Must exist in the <i>/etc/protocols</i> file. Specifies if the service is single or multi threaded. Sets the service to single threaded. Sets the service to multi threaded. Specifies the user ID for the server process. Must exist in the <i>/etc/passwd</i> file. Specifies the group ID for the server process. Must exist in the <i>/etc/group</i> file. | | |

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| instances | Specifies the number of services that can be simultaneously active. |
| =nr | Sets a specified number of services. |
| UNLIMITED | Sets the number to unlimited (is default). |
| nice | Sets the server priority. See the command <code>nice</code> . |
| server | Specifies the program to run for this service. |
| server_args | Specifies the arguments to pass on to the server. |
| only_from | Specifies the remote hosts that this service is available to. |
| %d.%d.%d.%d | The hosts can be specified as a list in only one of the following ways: |
| %d.%d.%d.{%d, %d...} | Numeric addresses with a zero as a wildcard. For example: 195.245.0.0. |
| network | Factorized addresses with the factorized part in the end. |
| host | Network name as found in the file <code>/etc/networks</code> . |
| IPaddress | Is the host or domain name. |
| no_access | An IP address or netmask range. Ex 1.2.3.4/32. |
| access_times | <u>NOTE: With no value the service will not be available to anybody.</u> |
| log_type | Specifies the remote hosts that this service is not available to. |
| SYSLOG | Specifies the time intervals that the service is available in the form h:m-h:m. |
| FILE | Specifies where to send the log output. There are two ways to log. |
| log_on_success | Logs to a specified <code>syslog</code> with a specified level. |
| PID | Logs to a specified file with a specified max volume. |
| HOST | Logs the information to log on starts and exits for the servers. |
| USERID | Combine any of the following values that you want to log: |
| EXIT | Logs the server process ID. |
| DURATION | Logs the address of the remote host. |
| log_on_failure | Logs the ID of the remote user. |
| HOST | Logs all exits and the current exit status of the servers. |
| USERID | Logs the time a session been running. |
| ATTEMPT | Logs the failed attempts to start a server. |
| RECORD | Logs the address of the remote host. |
| rpc_version | Logs the ID of the remote user. |
| rpc_number | Logs that an attempt was made. |
| env | Logs information from the remote end. |
| passenv | Specifies the RPC version as a single number or a range in the form nr-nr. |
| port | Specifies the number for an unlisted RPC service. |
| redirect | Specifies a list of strings in the form name=value to be added to the environment. |
| bind | Specifies a list of environment arguments from <code>xinetd</code> to pass on to the server. |
| interface | Specifies a service port. Must exist in the <code>/etc/services</code> file. |
| banner | Redirects a TCP service to another host with the specified address and port number. |
| banner_success38 | Binds a service to a interface with a specified IP address. |
| banner_fail | Same as <code>bind</code> |
| per_source | Writes the name of a file to a remote host when a service is opened. |
| =nr | Writes the name of a file to a remote host when a service is given access.. |
| UNLIMITED | Writes the name of a file to a remote host when a service has failed to get access. |
| cps | Specifies the number of instances per source IP addresses in a nr or as unlimited. |
| nr | Sets a specified number of services. |
| seconds | Sets the number to unlimited, witch also is the default. |
| max_load | Sets the limit of the incoming connections. |
| groups | Specifies the max number of incoming sessions per seconds before temporary stop. |
| = yes | Specifies the number of seconds to wait before restart after a stop. |
| = no | Sets a max average load per minute. Only supported by Linux and Solaris. |
| enabled | Specifies the group privileges. |
| include | Runs with access to the groups that the server's effective UID has access to. |
| includedir | Runs with no group privileges. |
| | Enables a list of service names. |
| | Includes a configuration file that is in the same form as <code>xinetd.conf</code> |
| | Includes a directory with configured service files. |

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| <i>operator</i> | NOTE: Include operations must be specified outside a service declaration. | | |
| = | Specifies what to do with a certain value. Use one of the following: | | |
| += | Sets only one single assignment operator. | | |
| -= | Adds a value to a set of values for a attribute. | | |
| | Removes a value from a set of values for a attribute. | | |
| | NOTE: Not all of the attributes will accept the plus / minus signs. | | |
| <i>values...</i> | Specifies the values for the attributes. | | |
| File Name: | xinetd.conf | Directory: | /etc/ Type: Text File |
| NOTE: | All assignment operators are supported by: only_from, no_access, log_on_success, log_on_failure, passenv & env (this doesn't support -=). | | |

| ab | | UNIX Shell: | All primary shells (bash, ash, tcsh) |
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| Description: | Benchmarks your Apache server by sending requests to it. | | |
| Syntax: | ab [options...] [http:// hostname[:port] /path] | | |
| -k | Enables multiple requests in one HTTP session. This is called HTTP KeepAlive. | | |
| -i | Uses an HTTP HEAD, which replaces the GET method. Not combinable with POST. | | |
| -n requests | Specifies the number of requests to run in the benchmark. | | |
| -t timelimit | Specifies the time in seconds to use benchmarking. This sets -n to 50000. | | |
| -c concurrency | Specifies the number of requests to perform simultaneously, where default is 1. | | |
| -p postfile | Specifies a file to send in any HTTP POST requests to the Apache server. | | |
| -A user:password | Provides the server with user name and password entered with a : between. | | |
| | NOTE: This is sent whether the server needs it or not, as uuencoded data. | | |
| -P user:password | Runs the same procedure as the -A switch but is used with proxy servers. | | |
| -H string | Appends more headers to the request, usually in value:value form. Repeatable option. | | |
| -C name=value | Adds a cookie to the request. The option is repeatable. | | |
| -T content-type | Specifies the content-type header for usage with POST data. | | |
| -v verbosity | Specifies verbosity level. | | |
| | NOTE: 2+ warnings and info. 3+ response codes. 4+ shows header info. | | |
| -w output HTML | Shows results in HTML tables. Default is two columns wide, white background. | | |
| -x string | Specifies the attributes for table. | | |
| -y string | Specifies the attributes for <tr> (table row). | | |
| -z string | Specifies the attributes for <td> (table data) or <th> (table header). | | |
| -V | Shows version information. | | |
| -h | Shows help information. | | |
| [http://]hostname[:port] /path | Defines the URL to use when benchmarking. HTTP and port isn't required. | | |
| File Name: | ab | Directory: | /usr/sbin/ Type: External |
| TIP: | Before you install a Web server that is heavily utilized, benchmark it to check whether it can handle the load. | | |
| ab http://hostname:port/path | | Test server on specified URL. | |
| ab -n 5 -c 5 http://hostname:port/path | | Test with five simultaneous requests per second. | |

| access | | UNIX Shell: | All primary shells (bash, ash, tcsh) |
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| Description: | Checks whether if a file can be accessed. Exits successfully if the file can be accessed with the specified mode. | | |
| Syntax: | access -mode file access option | | |
| --help | Shows help information. | | |
| --version | Shows version information. | | |
| -mode | Specifies the mode to test. Can be one or more of r, w, or x. | | |
| file | Specifies the file to test. | | |
| File Name: | access | Directory: | /usr/bin/ Type: External |
| access -r /etc/passwd ; echo \$? | | Tests whether you have read access to /etc/passwd. Should return 0. | |
| access -rwx /etc/passwd ; echo \$? | | Tests whether you have read, write, and execute access to /etc/passwd. Should return 1. | |

| actctrl | | UNIX Shell: | All primary shells (bash, ash, tcsh) |
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| Description: | Configures the IBM Active 2000 ISDN device driver and downloads firmware into the ISDN card. | | |

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| Syntax: | actctrl [-d <i>driverID</i>] <i>ACTION</i> | | |
| -d <i>DriverID</i> | Specifies the SO interface. Is required if you use multiple cards. | | |
| ACTION | You must specify one of the following actions: | | |
| add | Enables support for an additional card in the driver. | | |
| bus | Describes the bus-type of the card. The values are 1= ISA-bus, 2= MCA, 3= PCMCIA. | | |
| port | Describes the base port in one of two ways. Use one of the following port values: | | |
| integer | Specifies the value with an integer. | | |
| auto | Enables auto probing for the base port. | | |
| | When using port, you may also use the following: | | |
| irq | Specifies the IRQ to use. You must use one of the following three values for irq: | | |
| integer | Specifies the value with an integer. | | |
| auto | Selects the next free IRQ automatically. | | |
| none | Enables polled mode for this card. | | |
| | When using irq you may also use the following: | | |
| id | Uses any string to reference the card at a later time. | | |
| dproto <i>protocol</i> | Selects the D-channel protocol and defines MSN's if it uses the Euro protocol. | | |
| 1tr6 | Selects the D-channel protocol. | | |
| euro | Selects the Euro protocol. You may add up to 10 MSNs: | | |
| msn0,msn9 | Specifies the MSN. Use dash - for an empty entry. | | |
| load <i>firmware</i> | Downloads firmware into the card and starts operation. The file name is <code>bip1120.bpl</code> . | | |
| dump | Shows the internal driver contents on STDOUT. | | |
| | NOTE: Only works if the program is configured with the <code>--enable-dump</code> option. | | |
| File Name: | actctrl | Directory: | /usr/sbin/ Type: External |

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| addftinfo | | UNIX Shell: | All primary shells (bash, ash, tcsh) | |
| Description: | Reads troff font file and adds font metric information that is used by the groff system. | | | |
| Syntax: | addftinfo [option] resolution unitwidth font | | | |
| -x-height height | Specifies the height of lowercase letters without ascenders such as x. | | | |
| -fig-height height | Specifies the height of figures. | | | |
| -asc-height height | Specifies the height of characters with ascenders, for b, d, or l. | | | |
| -body-height height | Specifies the height of characters such as parentheses. | | | |
| -cap-height height | Specifies the height of uppercase letters such as A. | | | |
| -comma-depth height | Specifies the depth of a comma. | | | |
| -desc-depth height | Specifies the depth of characters with descenders, for p, q, or y. | | | |
| -body-depth height | Specifies the depth of characters such as parentheses. | | | |
| File Name: | addftinfo | Directory: | /usr/bin/ | Type: External |

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| addr | | UNIX Shell: | All primary shells (bash, ash, tcsh) | |
| Description: | Shows information about network addresses. Will show you the hexadecimal format of the IP address. | | | |
| Syntax: | addr [options...] | | | |
| -4 | <div>Input is in IPv4 format, (is default).</div> <div>Input is in IPv6 format.</div> <div>You must specify one of the following for the command to work:</div> <div>Specifies that input is given in hexadecimal format.</div> <div>Specifies the input address.</div> | | | |
| -6 | | | | |
| -n <i>hex</i> | | | | |
| -p <i>IPaddress</i> | | | | |
| | | | | |
| File Name: | addr | Directory: | /usr/bin/ | Type: External |
| addr -p 192.168.1.1 | | Shows information about the address 192.168.1.1. | | |
| addr -6 -p 1:1:1::1 | | Shows information about the address 1:1:1::1. | | |