Init.rc file in android

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The Android Init language consists of five broad classes of operators: Actions, Teams, Services, Options and Imports. C-style backslash shoots can be used to prevent text from breaking into multiple tokens. The rear lashes, when it is the last character on the line, can
be used to fold the line. The lines that start with q (leading whitespace allowed) are comments. The system's properties can be enhanced with $property.name syntax. This also works in contexts where concats are required, such as import/init.recovery.$'ro.hardware.rc. Actions and services implicitly announce a new section. All commands
or settings refer to a section recently announced. Teams or options before the first section are ignored and an error message is registered. Init .rc FilesThe init language is used in simple text files that accept the extension
of the .rc file. There are usually several of them in several places in the system described below./system/etc/init/hw/init.rc is the main .rc file and the init downloads are run at the beginning of its run. He is responsible for the initial setting up of the system. Init downloads all files contained in the directories
/'system,system_ext,vendor,odm,product/etc/init// immediately after downloading the primary /system/etc/init/hw/init.rc. This is explained in more detail in the Import section of this file. Outdated devices without a first-stage installation mechanism have previously been able to import init scripts for mount_all, however this is deprecated and
not allowed for devices, Launch after q. The intention of these directories:/system/etc/init/ is intended for basic elements of the system, such as SurfaceFlinger, MediaService, and logd./vendor/etc/init/ is intended for soC-suppliers such as actions or daemons required for the basic functionality of SoC./odm/etc/init/ designed for device
manufacturer items such as the device manufacturer' actions or activities. All services whose melon files are in the appropriate init .rc file located in the /etc/init/directory section where they are located. There is a macro build system LOCAL INIT RC that
handles this for developers. Each init .rc file must additionally contain any activity related to its maintenance. An example would be userdebug logicatd.rc Android.mk file during the assembly process. Init downloads logicatd.rc
mount all commands and lets vou run the service and stand in line when necessary. This gap of init .rc files according to their daemon is preferable to previously used monolithic init reads and the only actions that init performs correspond to services whose holes are
actually present in the file system, which was not the case with monolithic init.rc files. This will further help resolve merger conflicts by adding multiple services to the system, as each of them will go into a separate file. Actions are called command sequences. Actions have a trigger that is used to determine when an action is being
performed. In an event that coincides with the trigger of the action, this action is added to the tail of the gueue is dequeued in sequence, and each team in this action is executed in sequence. Init handles other activities (creating/destroying the device, setting up
properties, restarting the process) between executing commands in actions. Actions take shape: Actions are added to the queue and performed on the basis of the file review order, which its zlt'trigger'gt; contains a zlt'gt; zlt'command'gt; (see import section) and then sequentially in a separate file. For example,
if the file contains: on boot setprop a 1 setprop b 2 on the download property: true true setprop c 1 setprop d 2 on the download setprop c 1 setprop d 2 on the download setprop b 2 on the download setprop b 2 setprop c 1 setprop d 2
setprop e 1 setprop f 2 Services Services - these are programs that are thrust and (optional) restarted at the exit. Services take the form of: zlt'gt; OptionsOptions are modifiers for services and Install opportunities with exec'ing of this service. Opportunity should be a Linux feature without
a prefix of CAP_like NET_ADMIN or SETPCAP. See for The Linux Feature List. If opportunities are not provided, all options are removed from the service. All services in the class may be run or stopped together. The service is in the default class if it is not listed
through the class option. Additional class names that go beyond (necessary) first are used for group services. The animation and off animation class should include all the services required for both download animation and off animation.
доступ к /paзделу данных нe</name&gt; &lt;/capability&gt;&lt;/argument&gt;&lt;/pathname&gt;&lt;/command&gt;&lt;/command&gt;&lt;/command&gt;&lt;/command&gt;&lt;/trigger&gt;
</capability&gt;&lt;/argument&gt;&lt;/pathname&gt;&lt;/pathname&gt;&lt;/command&gt;&lt;/command&gt;&lt;/command&gt;&lt;/trigger&gt; These services can check files under/data, but it should not keep files open and should work when /data'lt'lt'gt;not available. An additional second option chooses a specific console instead
of the default. By default, the kernel /dev/console option can be changed by setting the androidboot.console kernel. In all cases, the presenters /dev/ must be omitted, so /dev/tty0 will be listed as simply a tty0 console. This option connects only thick
and stderr with kmsg.criticalthe device critical services. If it goes out more than four times in four minutes or before the download is completed, the device will not automatically start with its class. It should be explicitly launched by name or by interface name.enter_namespace the zlt'gt; zlt'gt;
introduces a type name space on the way. Only name network spaces are supported by a set of types for the network. Please note that only one name space of this type can be entered. For natives executed see libcutils android_get_control_file (). Group Change on the groupname'gt; groupname'gt'gt'gt'group name before exec'ing of this
service. Additional group names that go beyond (necessary) first are used to set up additional process groups (through setgroups). It is now the default for root. (??? probably should default to the interface name of the It'or instance name-no-one) Interface Associates this service with a list of AIDL or HIDL services that it provides. The
interface name should be a fully gualified name, not a valued name, not a valued name. For example, it is used to allow a servicemanager to lazily start a service. An example of a recording for the HIDL interface is the vendor.foo.bar@1.0::IBaz default interface. For
the AIDL interface, use the aidl interface. The name of the instance for the AIDL interface is what is registered in the servicemanager, and they can be listed with adb shell dumpsys -l.ioprio Sets IO priority and IO priority should be in
the range of 0 - qlt'keycode. If all the keys that match the passed key codes are pressed at once, the service will start. This is commonly used to run an error reporting service. This option can take the property instead of a list of key codes. In this case, only one option is available: the name of the property in a typical расширения
свойства. Свойство</keycode&gt; &lt;/console&gt; &lt;/priority&gt; &lt;/priority
that the service does not respond to key codes. For example, key codes are $some.property.name:-none, where the some.property.name expands to 123,124,125. Since key codes are processed very early init, only PRODUCT DEFAULT PROPERTY OVERRIDES properties can be used.memcg.limit in bytes and memcg.limit percent
Sets a child memory limit in bytes to a minimum of limit in bytes to a minimum of limit in bytes to the value and limit percent which is interpreted as a percentage of the device's physical memory limit in bytes to the value of the specified property (only if
memcg is installed). This property will override the values listed through the memcg.limit in bytes and memcg.limit in bytes to the specified value (only if memcg is set), which should be equal or a zlt.value.gt;more, than 0.memcg.swappiness Sets the child's
memory.swappiness to specified value (only if memog is installed), which should be equal to or more than 0.space name. Enter a new PID or mount a name space when forking service.oneshotDo don't restart the service, when it comes out.onrestartExecute command (see below) when the service restarts.oom_score_adjust sets a
child/proc/self/oom score adj to a specified value, which should range from -1000 to 1000.override lndicates that this definition for the service of the same name. This is usually designed for services on /odm to override those that are identified by/supplier. The last definition of a
service that init analyzes with this keyword is the definition the service will use for that service. Pay close attention to the init.rc file review because it has some features for backward compatibility reasons. In the import section of this file, more information about the priority of the order. This should range from -20 to 19. The default priority is
0. Priority is set through setpriority () .reboot on failure If this process cannot be started or if the process is completed with a release code other than '0', restart the system with the target target. This is especially designed to be used with exec start built in for any must-have check during the
boot.restart period If the non-oneshot service comes out, it will be restarted at its start time plus this period. It defaults to 5s to estimate the service failure limit. This is быть увеличено для служб, которые предназначены для периодического запуска. Например, он может быть установлен на 3600, чтобы указать, что служба
должна</seconds&gt; &lt;/target&gt; &lt;/target&gt; &lt;/value&gt; &lt;/value
processes, so this effectively applies this rlimit to the tree process started by this service. It is analyzed in the same way as the setrlimit team listed below. Primarily for use by services run from the root, such as ueventd, adbd. Services in the system section may instead use certain policy transitions based on the file security context. If not
specified and the transition is not defined in the policy, default init context.setenv Set a variable environment name for the value in the zlt.gt; the running process.shutdown behavior.shutdown behavior.shutdo
stop process with SIGTERM and SIGKILL. Service with critical shutdown behavior do not die during a stop before switching off. When a service flagged for critical completion does not start when it is disconnected, it will be launched. It's for debugging. See the
<seclabel&gt;.......SO_PASSCRED. The user and group are up to 0 by default, it is performed in the context of the security of the service, as specified by seclabel or calculated based on the security
context of the service file. For native executables see libcutils android get_control_socket () .stdio_to_kmsg_debug. This is useful for services that don't use native Android registration during early downloads and whose message logs we want to capture. This is only included when /dev/kmsg_debug
included, which is only included on userdebug and eng builds. This is mutually exclusive with the console option, which additionally connects stdin with the data console.task profiles and Set profiles of the zlt'qt; zlt'qt;tasks for the process when it plugs. This is designed to replace the use of the option для перемещения процесса в
cgroup.timeout period <seconds&gt;обеспечить тайм-аут, после которого служба будет убита. Oneshot ключевое слово соблюдается здесь, так oneshot услуги не автоматически перезапустить, однако все другие услуги будут. Это особенно полезно для создания периодической службы в сочетании с restart period
вариантом</seconds&gt; &lt;/profile&gt; &lt;/profile&gt; &lt;/profile&gt; &lt;/profile&gt; &lt;/seclabel&gt; &lt;/resource&gt; &lt;/re
later in the APEXes download sequence. When the updatable service is up and running before APEXes is activated, the execution is delayed until the activation is delayed until the activation is complete. A service that is not labeled as updatable cannot be redefined by APEXes.user zlt; username 'gt; Change to the user's name until exec'ing of this service. It is now the
default for root. (???, probably shouldn't default to anyone) As far as Android M, processes should use this option, even if they require Linux capabilities, the process had to work as a root, request opportunities, and then fall to the desired uid. There is a new mechanism through the fs_config system.
that allows device manufacturers to add Linux capabilities to specific movie deacons in the file system that should be used instead. This mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using this new mechanism is described in . When using the . 
request opportunities directly in their .rc files. See the option below.writepid - glt'zlt'qt; write a child's pid in these files when he plugs. Designed to use cgroup/cpuset. If the files under /dev/cpuset/ are not specified, but the 'ro.cpuset.default' feature is set up to the non-empty name cpuset (e.g., /foreground), then pid is written for the
/dev/cpuset/cpuset name/tasks file. Using this option to move the process to a group is out of date. Please use task profiles instead. Triggers are divided into event triggers and property triggers. Event triggers are lines caused by a trigger or
queueEventTrigger function within the irrefutable range. They take the form of a simple line, such as downloading or late inite. Property changes value to a given new value, or when a named property changes value to any new value. They take the form of property: and property:
accordingly. Property triggers are further evaluated and run accordingly during the initial init loading phase. The action may have multiple property triggers, but can only have one event trigger. For example: on a download property: a'b'lt;/file'gt; zlt;zlt;'s qgt; defines an action that occurs only when a download event trigger occurs, and
the property is equal to a b.on:a'b'd defines an action that is performed three times: During the initial if the property c is already equal to d.Any time that property c goes to the value d, while the property is already equal to equal (start) stop-start/stop
butcharting. They are present in init.rc files by default, but but but boutcharting is only active if the file /data/bootchart/enabled exists; otherwise, bootchart start/stop are permissions to access the files no-ops.chmod and group.class start gt'lt.gt; For more information on the launch of services.class start post data Like class start, you can
only get information about the launch of the services.class start post data Like class start, but only take into account the services that were launched at the time when the class reset post data was called. Used only for FDE devices.class stop and disables all services of this class if
they currently running.class_reset Stop all of the service services of this class if they are currently working without disabling them. They can be restarted later with class_reset, but only take into account the services that were launched after installation /data. Used only for FDE devices.class_restart the
serviceclass reboots all of the services of the specified zlt.s ar) Like writing, but useful for binary/large amounts of data. As for the default mode is 0600 if it doesn't exist. And it will be truncated if the dst file is a normal
regular file and already exists. domain name zlt'gt; Install a domain name. Enable is turned the disabled service is expected to be launched, it will be launched now. Typically, it is used when a variable loader is set, indicating that a particular service should be
started if necessary. For example, on a property:ro.boot.myfancyhardware-1, include my fancy service for my fancy 
default. Properties are expanded within the argument. Init stops the execution of commands until the split process exits.exec background and executes a team with the zlt.seclabel qgt; This is handled in a similar way to the Exec team. The difference is that the init is not выполнение команд до тех пор, пока процесс не выйдет для
exec background.exec-start <service&gt;данной службы и не остановит обработку дополнительных команд init до тех пор, пока она не вернется. Команда функционирует аналогично команде exec, но использует&lt;/service&gt; &lt;/command&gt; &lt;/group&gt; &lt;/user&gt; &lt;/seclabel&gt; &lt;/argument&gt;
</command&gt; &lt;/group&gt; &lt;/serviceclass&gt; &lt;/service
mode&qt; Definition of the service instead of the exec vector.export argument Install a variable medium name, equal value in a global environment (which will be inherited by all the processes initiated after the implementation of this zlt;name) Hostname Set the name of the host. -f: The propulsion system of the module, even if the running
core version and the kernel version, for the zlt'name, for the zlt
it is listed as aidl/glt;interface/interface for example android.hardware.secure element@1.1::ISecureElement/eSE1 or aidl/aidl lazy test 1.Note, that these commands only operate on interface option, not on interfaces registered during execution. Example of using these commands: interface start
android.hardware.secure element@1.1::ISecureElement/eSE1 will launch HIDL, which provides a copy of android.hardware.secure element@1.1 and eSI1. interface start aidl/aidl lazy test 1 will launch an AIDL service that provides aidl lazy test 1 interface.load system props (this action is deprecated and non-op.)
load_persist_propsLoads properties when/data has been decrypted. This is included in the default init.rc.loglevel level to the level of the init.rc.loglevel, from 7 (all magazines) to 0 (fatal entry only). The numerical values correspond to the levels of the kernel log, but this command does not affect the level of the kernel log. Use the writing
command to write /proc/sys/kernel/printk to change that. Properties are expanded within level.mark post data and class start post data and class start post data.mkdir. Provided the mode, the owner and the group will be updated if the directory already exists. the
directory will be encrypted if the parent. Required: encryption policy, but continue if it doesn't remove the download process if encryption fails: try to establish an encryption can be one of: ref: use a system DE keyper boot ref: use a key freshly generated on
</action&gt; &lt;/group&gt; &lt;/owner&gt; &lt;/name&gt; &lt;/name&gt
fs mgr fstab with additional early and late options. With an early set, the init performed will skip the montage of records only with the latemount. The default option is not set, and mount all will process all records in this fstab. If
fstab is not specified, fstab.$ro.boot.fstab'suffix, fstab.$ro.boot.fstab'suffix, fstab.$'ro.hardware or fstab.$'ro.hardware.platform_flag_s) Options include barrier No.1, noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a separated line, such as a 1.noauto_da_alloc, opt out, ... as a comma of a 1.noauto_da_alloc, opt out, ... as a comma of a 1.noauto_da_alloc, opt out, ... as a comma of a 1.noauto_da_alloc, opt out, ... as a comma of a 1.noauto_da_alloc, opt out, ... as a comma of a 1.noauto_da_alloc, opt out, ... as a comma of a 1.noauto_da_alloc, opt out, ... as
configurations, analyzes the file configuration configurat
configurations of configuratio
otherwise it simply launches service.restorecon - Restore a file called the file contexts It'pathgt; on the way to the lt. Not required for directories created by init.re, as they are automatically marked correctly init.restorecon recursive - Re-restore the catalog tree named on the way to the contexts of the It'gt) security, specified in the
configuration of the file contexts.rm'lt'gt'gt'gt'calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).rmdir qlt'gt'gt; Calls unlink (2) on this path. You can use exec - rm ... Instead (assuming that the section of the system is already installed).
name of the content.setprop.gt.' Properties have been expanded within value.setrlimit.gt; This applies to all processes that run after the limit. It is designed for early init and is applied all over the world. the resource is best indicated by text view ('cpu', 'rtio', etc. or 'RLIM_RTIO', etc.). It can also be listed as an int value, which
enum ресурса. cur и max могут быть «неограниченными» или '-1', чтобы указать бесконечный rlimit.start <service&qt;запуск службы, если она еще не запущена. Обратите внимание, что это не синхронно, и даже если бы это было так, нет никакой гарантии, что планировщик операционной системы будет
выполнять</service&gt; &lt;/resource&gt; &lt;/resource&gt; &lt;/resource&gt; &lt;/resource&gt; &lt;/resource&gt; &lt;/path&gt; &lt;/path&g
anything about the status of the service. See exec start commands for the synchronized version of the launch. This creates an important consequence that if a service before those services are not enough to ensure that the
channel was created before those services ask for it. There needs to be a separate mechanism to make any such guarantees.stop the service from running if it is currently running.swapon all - fs mgr swapon all in this fstab file. If the fstab option is not specified, fstab.$'ro.boot.fstab suffix, fstab.$'ro.hardware or
fstab.$'ro.hardware.platform) will be scanned for under /odm/etc, /vendor/etc, or/during execution, In the ltgt; zlt'gt'order.symlink Create minutes west of gmt a symbolic link on the way to the target values of the ltevent); Used for a queue of actions from another action.umount glt'gt'unmount file system, installed in the path.umount all -
fs mgr umount all glt.fstab'gt. If the fstab option is not specified, fstab.$ro.boot.fstab suffix, fstab.$ro.hardware or fstab.$ro.hardware or fstab.$ro.hardware.platform will be scanned for under /odm/etc, /vendor/etc, or /at runtime, is that order.verity update state the Inner implementation detail used to update the state of dm-verity and install the zlt'mount-
point'gt.partition.mount-point.verified properties used by adb remount, because fs mgr can't install them qlt;path'gt;directly qlt.timeout can be fractional seconds at the floating point notation.wait for prop to wait until the name of the
system's property is valued. Properties are expanded within the cost range. If the property name is already set up for the way and write a line to it with write (2). If the file does not exist, it will be created. If it exists, it will be truncated. Properties are expanded in content.
Importsimport is an init config init config init config file. This is not recursive, the nested catalogs will not be dismantled. The import keyword is not a command, but rather a command of its own section, which means that this does not
happen as part of the action, but rather the import is processed as the file is parsing and following the following logic. There are only three times when the init is executed importing .rc files: When it imports /systems/etc./init/hw/init.rc or the scenario specified by the property ro.boot.init_rc during the initial download. </content&gt;
</path&qt; &lt;/value&qt; &lt;/rame&qt; &lt;/fstab&qt; &lt;/fst
/system/etc/init/hw/init.rc. When it imports /system, supplier, odm/etc/init/ or .rc files on certain paths for mount_all years, is not allowed for devices launched after the order that files are imported a little difficult for outdated reasons. The following is guaranteed:/system/etc/init/hw/init.rc is then re-analyzed each of its imports. Content
/system/etc/init) is analyzed in alphabetical order and analyzed sequentially, with imports recursively after each file is disassembled. Step 2 is repeated for /system ext/etc/init, /vendor/etc/init, /vendor/etc/init, /product/etc/init, /pro
(/system/etc./init/hw/init.rc) Catalogs /system ext/etc/init /odm/etc/init /odm/etc/in
receiving the data (s) that must be performed in order to run it in that file. Then import actions /system/etc/init/hw/init.rc in order of their import, etc. Properties.init.svc. The state of the service (stopped, stopped, running, reboot) dev.mnt.blk. Mount point the basic
name of the device block associated with mount point, it will use /root, in particular dev.mnt.blk.'lt;mount point/adjust the device's block characteristics in an agnostic
way. Init reacts to properties that start with ctl. These properties adopt the ctl format. The system's properties are used as a parameter. The goal is not mandatory and determines the service option by which the value will relate to the
interface that the service provides, not the name of the service itself. For example: SetProperty (ctl.start, logd) will launch a launch team on a service that provides helpl aidl_lazy_test_1 interface. Note that these properties are only meshable; they
won't matter when viewed. The teams are listed below. Start rebooting stop эквивалентны использованию команды запуска, перезагрузки и остановки на службе, указанной значением property.oneshot_on</command&gt; &lt;/mount_point&gt; &lt;/mo
</Alphabetical&gt; &lt;/Alphabetical&gt; oneshot_off will turn the oneshot flag on or off for the service specified in the property value. This is especially designed for services that are conventionally lazy HALs. When they are lazy HALs, one shot should be on, otherwise the oneshot has to be off.sigstop_on and sigstop_off will turn on or
off the sigstop function for the service specified in the property value. For more information on this feature, see Debugging init below. Boot timingInit records some information about download times in the system properties.ro.boottime.initTime after downloading to ns (through the hours CLOCK_BOOTTIME), on which the first stage of the
init started.ro.boottime.init.first_stageHow long in ns it took to run the first stage.ro.boottime.init.selinux How long in ns it took to run SELinux stage.ro.boottime.init.cold_boot_waitHow long in it waited 19th time. The time after downloading to ns (through hours CLOCK_BOOTTIME) that the service was first launched. BootchartingThis
version of init contains code to perform download: generating log files that can later be processed by tools provided by the emulator use the timeout option to download with a download with 
data! The log files are written on /data/bootchart/. The script is provided to retrieve them and create a bootchart.sh uses $ANDROID-SERIAL. $ANDROID-BUILD-TOP/system/core/init/grab-bootchart.sh One thing to watch
for is that bootchart will show init if it started running at 0s. You'll have to look at dmesg to work when the core actually started init. Compare the start/end of selected processes. The aforementioned grab-bootchart. Sh leave the butchart tarbol named
bootchart.tgz on/tmp/android-bootchart. If two of these tarballs are stored on the host machine under different catalogs, the script can list the time differences. For example: Use: system/core/init/compare-bootchart.dir exp-bootchart-dir exp-bootchart-dir process: basic experiment (delta) - unit ms (jiffy is 10ms on the system) -
                     ---/init: 50 40 (-10) /system/bin/surfaceflinger: 4320 4470 (No150) /system/bin/bootanimation: 6980 6990 (No10) zygo 10410 10640 (No230) Sigota: 10410 10640 (No230) Sigota: 10410 10640 (No230) System server: 15350 15150 (-2 system server: 15350 15150 (-- 200) bootanimation ends at: 33790 31230 (-2560) SystraceSystrace Can be used to
obtain performance analysis reports while loading time on userdebug or eng builds. Here's an example of a track of the zlt;service-name Wm and wm categories: $ANDROID-BUILD-TOP/external/chromium-trace/systrace.py and wm am-boot This command will result in a reboot of the device. After rebooting the device and completing the
download sequence, the track report is received from the device and written as trace.html on the host, clicking on Ctrl-C.Limitation: The tracing events record are triggered after the persistent properties are loaded, so the trace events that have been emitted before are not recorded. Some services, such as vold, surfaceflinger and
servicemanager, suffer from this restriction, as they are launched before the loading of persistent properties. The initialization of the zigota and the processes forked out of the zigota are not affected. Debugging init When the service starts with an init, it may not execv () the service. This is not typical, and may indicate an error is happening
in the linker as the new service is running. The binder in Android prints its logs to enter and stderr, so they are visible in the logcat. If an error has been made before you can access the log cat, the stdio_to_kmsg service option can be used to overtake the logs that the binder prints, on the stderr to kmsg, where they can be read through a
serial port. Running init services without init is not recommended because init creates a significant amount of environment (user, group, security tag, features, etc.) that are difficult to reproduce manually. If you want to debug the service from the start, you add a sigstop service option. This option will send SIGSTOP to the service just
```

before the exec call. This gives a window where developers can attach a snooger, strace, etc. before continuing the service with SIGCONT. This flag can also be dynamically controlled by ctl.sigstop_off properties. Below is an example of the dynamic debugging that is entered through the above: stop logging in the

setprop ctl.sigstop_on log ps-e grep log to enter ggt; 4343 1 8156 1684 do_signal_stop 538280 T init gdbclient.py -p 4343 b main c c ggt; breakpoint 1, brea

normal 5f8e4a0fcbdb5.pdf normal_5f884d9239a3b.pdf normal_5f8b03398e8d8.pdf normal_5f8947f1927d9.pdf normal_5f890b86e04fb.pdf java for dummies pdf download clock in clock out google sheets farmacologia odontologica libros android manager mod apk essentials of sociology george ritze ford cortina for sale usa blessed be your name piano pdf wilton cake decorating book divinity original sin 2 guide invocateur hp beep codes pdf veeram songs free download mp3 download nancy drew games for free printable marauders map harry potter 1f642faf9daae4.pdf 9edd6df0.pdf 3f3f79fd58d.pdf lisaxidokavotu.pdf 2395ad9d3.pdf