Tina_yocto
添加开机自启动守护进程说明文档 v1.0

文档履历

版本号	日期	制/修订人	制/修订记录
V1.0	2018/5/26		初始版本

目　　录

1. 概述

1.1. 编写目的

使 Tina_yocto 系统开发人员，更方便快速的了解开机自启动脚本的配置与使用

1.2. 适用范围

Tina_yocto 开机自启动相关配置与使用

1.3. 相关人员

Tina_yocto 系统开发人员

2. Tina_yocto 开机自启动脚本位置

目前 Tina_yocto 开机自启动脚本一般放置于/etc/rcS.d 目录下，开机自启动脚本文件名要求为 Sxx，第一个字母为大写 S。

3. 添加普通的开机自启动守护进程

1、完成该守护进程的开机自启动脚本，脚本名要求为 SXXX，如 S30DeamonSample， 脚本范例如下

```sh
#! /bin/sh

PATH=/sbin:/usr/sbin:/bin:/usr/bin
DESC="deamon sample"
#守护进程软件名
NAME="deamon_sample"
DAEMON=/usr/bin/$NAME
DAEMON_ARGS=""
PIDFILE=/$NAME.pid

. /etc/init.d/functions || exit 1
# Exit if the package is not installed
[ -x "$DAEMON" ] || exit 0

start_service() {
    local pid status
    exec $DAEMON $DAEMON_ARGS >/dev/null 2>&1 &
    status=$?
    [ $status -eq 0 ] && {
        echo "ERROR: Failed to start $DESC."
        exit $status
    }
}

do_start() {
    local pid status
    status=0
    pid=`pidofproc $NAME` || status=$?
    case $status in
    0)
        echo "$DESC already running ($pid)."
        exit 1
        ;;
    *)
        echo "Starting $DESC ..."
        start_service
        ;;
    esac
}

do_stop() {
    local pid status
    status=0
    pid=`pidofproc $NAME` || status=$?
    case $status in
    0)
        # Exit when fail to stop, the kill would complain when fail
        kill -s 15 $pid >/dev/null && rm -f $PIDFILE && \
            echo "Stopped $DESC ($pid)." || exit $?
        ;;
    *)
        echo "$DESC is not running; none killed." >&2
        ;;
```

```
        esac
        return $status
}

do_reload() {
    local pid status
    status=0
    pid=`pidofproc $NAME` || status=$?
    case $status in
    0)
        echo "Reloading $DESC ..."
        kill -s 1 $pid || exit $?
        ;;
    *)
        echo "$DESC is not running; none reloaded." >&2
        ;;
    esac
    exit $status
}

status_of_proc () {
    local pid status

    status=0
    # pidof output null when no program is running, so no "2>/dev/null".
    pid=`pidofproc $NAME` || status=$?
    case $status in
    0)
        echo "$DESC is running ($pid)."
        exit 0
        ;;
    *)
        echo "$DESC is not running." >&2
        exit $status
        ;;
    esac
}

case "$1" in
start)
    do_start
    ;;
stop)
    do_stop || exit $?
    ;;
status)
    status_of_proc
    ;;
restart)
    do_stop
    do_start
    ;;
try-restart|force-reload)
    do_stop && do_start
    ;;
*)
    echo "Usage: $0 {start|stop|status|restart|try-restart|force-reload}" >&2
```

```
    exit 3
    ;;
Esac
```

2、将该启动脚本放入 sources/poky/meta/recipes-core/busybox/files/文件下

3、在./sources/poky/meta/recipes-core/busybox/busybox-inittab_1.27.2.bb 文件中的 do_install 中添加语句：

```
install -D -m 0755 ${WORKDIR}/S30DeamonSample ${D}${sysconfdir}/rcS.d/S30DeamonSample
```

如此便在开机时运行该脚本，自启动该守护进程。

4. 添加与库、应用有关的开机自启动守护进程

1、完成该守护进程的开机自启动脚本，脚本名要求为 SXXX，如 S30DeamonSample

2、进入该应用所对应的配方目录，以 gui-sampleapp 为例，其配方目录为

```
/sources/meta-tina/recipes-thirdparty/avs/gui-sampleapp/
```

3、将该启动脚本放在其子目录 files 中，在该应用对应的 bb 文件的 do_install 函数添加语句。

```
install -Dm 0755 ${THISDIR}/files/S30DeamonSample ${D}/${sysconfdir}/rcS.d/S30DeamonSample
```

如此便在开机时运行该脚本，自启动该守护进程。

5. Declaration

This document is the original work and copyrighted property of Allwinner Technology （"Allwinner"）. Reproduction in whole or in part must obtain the written approval of Allwinner and give clear acknowledgment to the copyright owner.

The information furnished by Allwinner is believed to be accurate and reliable. Allwinner reserves the right to make changes in circuit design and/or specifications at any time without notice. Allwinner does not assume any responsibility and liability for its use. Nor for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Allwinner. This datasheet neither states nor implies warranty of any kind, including fitness for any particular application.