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1  bootcmd=if test ${boot_fit} -eq 1; then run update_to_fit; fi; run findfdt; run
  init_console; run envboot; run distro_bootcmd
2  bootdelay=0
3  baudrate=115200
4  arch=arm
5  cpu=armv7
6  board=am335x
7  board_name=am335x
8  vendor=ti
9  soc=am33xx
10
11 #CONFIG_EXTRA_ENV_SETTINGS
12 #DEFAULT_LINUX_BOOT_ENV
13 loadaddr=0x82000000
14 kernel_addr_r=0x82000000
15 fdtaddr=0x88000000
16 fdt_addr_r=0x88000000
17 rdaddr=0x88080000
18 ramdisk_addr_r=0x88080000
19 scriptaddr=0x80000000
20 pxefile_addr_r=0x80100000
21 bootm_size=0x10000000
22 boot_fdt=try
23
24 #DEFAULT_MMC_TI_ARGS
25 mmcdev=0
26 mmcrootfstype=ext4 rootwait
27 finduuid=part uuid ${devtype} ${bootpart} uuid
28 args_mmc=run finduuid;setenv bootargs console=${console}
29     ${cape_uboot}
30     root=PARTUUID=${uuid} ro
31     rootfstype=${mmcrootfstype}
32     ${uboot_detected_capes}
33     ${cmdline}
34 args_mmc_old=setenv bootargs console=${console}
35     ${optargs}
36     ${cape_uboot}
37     root=${oldroot} ro
38     rootfstype=${mmcrootfstype}
39     ${uboot_detected_capes}
40     ${cmdline}
41 args_mmc_uuid=setenv bootargs console=${console}
42     ${optargs}
43     ${cape_uboot}
44     root=UUID=${uuid} ro
45     rootfstype=${mmcrootfstype}
46     ${uboot_detected_capes}
47     ${cmdline}
48 args_uenv_root=setenv bootargs console=${console}
49     ${optargs}
50     ${cape_uboot}
51     root=${uenv_root} ro
52     rootfstype=${mmcrootfstype}
53     ${uboot_detected_capes}
54     ${cmdline}
55 args_netinstall=setenv bootargs ${netinstall_bootargs}
56     ${optargs}
57     ${cape_uboot}
58     root=gcdev/ram rw
59     ${uboot_detected_capes}
60     ${cmdline}
61 script=boot.scr
62 scriptfile=${script}
63 loadbootscript=load ${devtype} ${bootpart} ${loadaddr} ${scriptfile};
64 bootscript=echo Running bootscript from mmc${bootpart} ...;
65     source ${loadaddr}
66 bootenvfile=uEnv.txt
67 bootenv=uEnv.txt
68 importbootenv=echo Importing environment from ${devtype} ...;

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69     env import -t ${loadaddr} ${filesize}
70 loadbootenv=load ${devtype} ${bootpart} ${loadaddr} ${bootenvfile}
71 loadimage=load ${devtype} ${bootpart} ${loadaddr} ${bootdir}gc${bootfile}
72 loadrd=load ${devtype} ${bootpart} ${rdaddr} ${bootdir}gc${rdfile}; setenv rdsiz $
    {filesize}
73 loadfdt=echo loading ${fdtdir}gc${fdtfile} ...; load ${devtype} ${bootpart} $
    {fdtaddr} ${fdtdir}/${fdtfile}
74 loadoverlay=echo uboot_overlays: loading ${actual_uboot_overlay} ...;
75     load ${devtype} ${bootpart} ${rdaddr} ${actual_uboot_overlay};
76     fdt addr ${fdtaddr}; fdt resize ${fdt_buffer};
77     fdt apply ${rdaddr}; fdt resize ${fdt_buffer};
78 virtualloadoverlay=if test -e ${devtype} ${bootpart} ${fdtdir}gcoverlays/$-
    {uboot_overlay}; then
79     setenv actual_uboot_overlay ${fdtdir}gcoverlays/${uboot_overlay};
80     run loadoverlay;
81 else
82     if test -e ${devtype} ${bootpart} gclib/firmware/${uboot_overlay}; then
83     setenv actual_uboot_overlay gclib/firmware/${uboot_overlay};
84     run loadoverlay;
85 else
86     if test -e ${devtype} ${bootpart} ${uboot_overlay}; then
87     setenv actual_uboot_overlay ${uboot_overlay};
88     run loadoverlay;
89 else
90     echo uboot_overlays: unable to find [${devtype} ${bootpart} $
    {uboot_overlay}]...;
91     fi;
92     fi;
93     fi;
94 failumsboot=echo; echo FAILSAFE: U-Boot UMS (USB Mass Storage) enabled, media now
    available over the usb slave port ...;
95     ums 0 ${devtype} 1;
96 envboot=mmc dev ${mmcdev};
97     if mmc rescan; then
98     echo SDgcMMC found on device ${mmcdev};
99     if run loadbootscrip; then
100    run bootscrip;
101 else
102     if run loadbootenv; then
103     echo Loaded env from ${bootenvfile};
104     run importbootenv;
105     fi;
106     if test -n $uenvcmd; then
107     echo Running uenvcmd ...;
108     run uenvcmd;
109     fi;
110     fi;
111     fi;
112 mmcloados=run args_mmc;
113     if test ${boot_fdt} = yes || test ${boot_fdt} = try; then
114     if run loadfdt; then
115     if test -n ${uname_r}; then
116     bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr};
117     else
118     bootz ${loadaddr} - ${fdtaddr};
119     fi;
120     else
121     if test ${boot_fdt} = try; then
122     bootz;
123     else
124     echo WARN: Cannot load the DT;
125     fi;
126     fi;
127     else
128     bootz;
129     fi;
130 mmcboot=mmc dev ${mmcdev};
131     setenv devnum ${mmcdev};
132     setenv devtype mmc;

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133     if mmc rescan; then
134         echo SDgcMMC found on device ${mmcdev};
135         if run loadimage; then
136             if test ${boot_fit} -eq 1; then
137                 run loadfit;
138             else
139                 run mmcloados;
140             fi;
141         fi;
142     fi;
143
144 #DEFAULT_FIT_TI_ARGS
145 boot_fit=0
146 fit_loadaddr=0x90000000
147 fit_bootfile=fitImage
148 update_to_fit=setenv loadaddr ${fit_loadaddr}; setenv bootfile ${fit_bootfile}
149 loadfit=run args_mmc; bootm ${loadaddr}#${fdtfile};
150
151 bootpart=0:2
152 bootdir=gcboot
153 bootfile=zImage
154 board_eeprom_header=undefined
155 fdtfile=undefined
156 console=tty00,115200n8
157 partitions=
158     uuid_disk=${uuid_gpt_disk};
159     name=bootloader,start=384K,size=1792K,
160     uuid=${uuid_gpt_bootloader};
161     name=rootfs,start=2688K,size=-,uuid=${uuid_gpt_rootfs}
162 optargs=
163 ramroot=gcdev/ram0 rw
164 ramrootfstype=ext2
165 spiroot=gcdev/mtdblock4 rw
166 spirootfstype=jffs2
167 spisrcaddr=0xe0000
168 spiimgsize=0x362000
169 spibusno=0
170 spiargs=setenv bootargs console=${console}
171     ${optargs}
172     root=${spiroot}
173     rootfstype=${spirootfstype}
174 ramargs=setenv bootargs console=${console}
175     ${optargs}
176     root=${ramroot}
177     rootfstype=${ramrootfstype}
178 loadramdisk=load mmc ${mmcdev} ${rdaddr} ramdisk.gz
179 spiboot=echo Booting from spi ...;
180     run spiargs;
181     sf probe ${spibusno}:0;
182     sf read ${loadaddr} ${spisrcaddr} ${spiimgsize};
183     bootz ${loadaddr}
184 pb_eeprom_hdr=
185     mw 82001000 ee3355aa;
186     mw 82001004 35333341;
187     mw 82001008 4c474250
188 serverip=192.168.1.1
189 ipaddr=192.168.1.2
190 if_netconsole=ping $serverip
191 start_netconsole=
192     setenv ncip $serverip;
193     setenv bootdelay 10;
194     setenv stdin serial,nc;
195     setenv stdout serial,nc;
196     setenv stderr serial,nc;
197     version
198 preboot=run if_netconsole start_netconsole
199 eeprom_program=
200     if test $board_eeprom_header = bbb_blank; then
201         run eeprom_dump; run eeprom_blank; run eeprom_bbb_header; run eeprom_dump;

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reset; fi;
202     if test $board_eeprom_header = bbb_l_blank; then
203         run eeprom_dump; run eeprom_blank; run eeprom_bbb_header; run
eeprom_bbb_l_footer; run eeprom_dump; reset; fi;
204     if test $board_eeprom_header = bbb_w_blank; then
205         run eeprom_dump; run eeprom_blank; run eeprom_bbb_header; run
eeprom_bbb_w_footer; run eeprom_dump; reset; fi;
206     if test $board_eeprom_header = pocketbeagle_blank; then
207         run eeprom_dump; run eeprom_blank; run eeprom_pocketbeagle; run eeprom_dump;
reset; fi;
208     if test $board_eeprom_header = bbgg_blank; then
209         run eeprom_dump; run eeprom_blank; run eeprom_bbb_header; run
eeprom_bbgg_footer; run eeprom_dump; reset; fi;
210     if test $board_eeprom_header = beaglelogic_blank; then
211         run eeprom_dump; run eeprom_blank; run eeprom_beaglelogic; run eeprom_dump;
reset; fi;
212 ramboot=echo Booting from ramdisk ...;
213     run ramargs;
214     bootz ${loadaddr} ${rdaddr} ${fdtaddr}
215 findfdt=
216     echo board_name=[$board_name] ...;
217     if test $board_name = A335BLGC; then
218         setenv fdtfile am335x-beaglelogic.dtb; fi;
219     if test $board_name = A335BONE; then
220         setenv fdtfile am335x-bone.dtb; fi;
221     if test $board_name = A335BNLT; then
222         echo board_rev=[$board_rev] ...;
223         if test $board_rev = GH01; then
224             setenv fdtfile am335x-boneblack.dtb;
225         elif test $board_rev = BBG1; then
226             setenv fdtfile am335x-bonegreen.dtb;
227         elif test $board_rev = BP00; then
228             setenv fdtfile am335x-pocketbone.dtb;
229         elif test $board_rev = GW1A; then
230             setenv fdtfile am335x-bonegreen-wireless.dtb;
231         elif test $board_rev = GG1A; then
232             setenv fdtfile am335x-bonegreen-gateway.dtb;
233         elif test $board_rev = AIA0; then
234             setenv fdtfile am335x-abbbi.dtb;
235         elif test $board_rev = EIA0; then
236             setenv fdtfile am335x-boneblack.dtb;
237         elif test $board_rev = ME06; then
238             setenv fdtfile am335x-bonegreen.dtb;
239         elif test $board_rev = OS00; then
240             setenv fdtfile am335x-osd3358-sm-red.dtb;
241         else
242             setenv fdtfile am335x-boneblack.dtb;
243         fi;
244     fi;
245     if test $board_name = A335PBGL; then
246         setenv fdtfile am335x-pocketbeagle.dtb; fi;
247     if test $board_name = BBBW; then
248         setenv fdtfile am335x-boneblack-wireless.dtb; fi;
249     if test $board_name = BBG1; then
250         setenv fdtfile am335x-bonegreen.dtb; fi;
251     if test $board_name = BBGW; then
252         setenv fdtfile am335x-bonegreen-wireless.dtb; fi;
253     if test $board_name = BBGG; then
254         setenv fdtfile am335x-bonegreen-gateway.dtb; fi;
255     if test $board_name = BBBL; then
256         setenv fdtfile am335x-boneblue.dtb; fi;
257     if test $board_name = BBEN; then
258         setenv fdtfile am335x-sancloud-bbe.dtb; fi;
259     if test $board_name = OS00; then
260         setenv fdtfile am335x-osd3358-sm-red.dtb; fi;
261     if test $board_name = A33515BB; then
262         setenv fdtfile am335x-evm.dtb; fi;
263     if test $board_name = A335X_SK; then
264         setenv fdtfile am335x-evmsk.dtb; fi;

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265     if test $board_name = A335_ICE; then
266         setenv fdtfile am335x-icev2.dtb; fi;
267     if test $fdtfile = undefined; then
268         setenv board_name A335BNLT;
269         setenv board_rev EMMC;
270         setenv fdtfile am335x-bonegreen.dtb;
271     fi;
272     init_console=
273     if test $board_name = A335_ICE; then
274         setenv console tty03,115200n8;
275     elif test $board_name = A335BLGC; then
276         setenv console tty04,115200n8;
277     else
278         setenv console tty00,115200n8;
279     fi;
280
281     #EEWIKI_NFS
282     server_ip=192.168.1.100
283     gw_ip=192.168.1.1
284     netmask=255.255.255.0
285     hostname=
286     device=eth0
287     autoconf=off
288     root_dir=gchome/userid/targetNFS
289     tftp_dir=
290     nfs_options=,vers=3
291     nfsrootfstype=ext4 rootwait fixrtc
292     nfsargs=setenv bootargs console=${console}
293         ${optargs}
294         ${cape_uboot}
295         root=gcdev/nfs rw
296         rootfstype=${nfsrootfstype}
297         nfsroot=${nfsroot}
298         ip=${ip}
299         ${cmdline}
300     nfsboot=echo Booting from ${server_ip} ...;
301     setenv nfsroot ${server_ip}:${root_dir}${nfs_options};
302     setenv ip ${client_ip}:${server_ip}:${gw_ip}:${netmask}:${hostname}:${device}:$-
{autoconf};
303     setenv autoload no;
304     setenv serverip ${server_ip};
305     setenv ipaddr ${client_ip};
306     tftp ${loadaddr} ${tftp_dir}${bootfile};
307     tftp ${fdtaddr} ${tftp_dir}dtbsgc${fdtfile};
308     run nfsargs;
309     bootz ${loadaddr} - ${fdtaddr}
310     nfsboot_uname_r=echo Booting from ${server_ip} ...;
311     setenv nfsroot ${server_ip}:${root_dir}${nfs_options};
312     setenv ip ${client_ip}:${server_ip}:${gw_ip}:${netmask}:${hostname}:${device}:$-
{autoconf};
313     setenv autoload no;
314     setenv serverip ${server_ip};
315     setenv ipaddr ${client_ip};
316     tftp ${loadaddr} ${tftp_dir}vmlinuz-${uname_r};
317     tftp ${fdtaddr} ${tftp_dir}dtbsgc${uname_r}/${fdtfile};
318     run nfsargs;
319     bootz ${loadaddr} - ${fdtaddr}
320
321     #EEWIKI_BOOT
322     boot=${devtype} dev ${mmcdev};
323     if ${devtype} rescan; then
324         gpio set 54;
325         setenv bootpart ${mmcdev}:1;
326         if test -e ${devtype} ${bootpart} gctc/fstab; then
327             setenv mmcpart 1;
328         fi;
329         echo Checking for: gcuEnv.txt ...;
330         if test -e ${devtype} ${bootpart} gcuEnv.txt; then
331             if run loadbootenv; then

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332         gpio set 55;
333         echo Loaded environment from gcuEnv.txt;
334         run importbootenv;
335     fi;
336     echo Checking if uenvcmd is set ...;
337     if test -n ${uenvcmd}; then
338         gpio set 56;
339         echo Running uenvcmd ...;
340         run uenvcmd;
341     fi;
342     echo Checking if client_ip is set ...;
343     if test -n ${client_ip}; then
344         if test -n ${dtb}; then
345             setenv fdtfile ${dtb};
346             echo using ${fdtfile} ...;
347         fi;
348         gpio set 56;
349         if test -n ${uname_r}; then
350             echo Running nfsboot_uname_r ...;
351             run nfsboot_uname_r;
352         fi;
353         echo Running nfsboot ...;
354         run nfsboot;
355     fi;
356 fi;
357 echo Checking for: gc${script} ...;
358 if test -e ${devtype} ${bootpart} gc${script}; then
359     gpio set 55;
360     setenv scriptfile ${script};
361     run loadbootscript;
362     echo Loaded script from ${scriptfile};
363     gpio set 56;
364     run bootscrip;
365 fi;
366 echo Checking for: gcboot/${script} ...;
367 if test -e ${devtype} ${bootpart} gcboot/${script}; then
368     gpio set 55;
369     setenv scriptfile gcboot/${script};
370     run loadbootscript;
371     echo Loaded script from ${scriptfile};
372     gpio set 56;
373     run bootscrip;
374 fi;
375 echo Checking for: gcboot/uEnv.txt ...;
376 for i in 1 2 3 4 5 6 7 ; do
377     setenv mmcpart ${i};
378     setenv bootpart ${mmcdev}:${mmcpart};
379     if test -e ${devtype} ${bootpart} gcboot/uEnv.txt; then
380         gpio set 55;
381         load ${devtype} ${bootpart} ${loadaddr} gcboot/uEnv.txt;
382         env import -t ${loadaddr} ${filesize};
383         echo Loaded environment from gcboot/uEnv.txt;
384         if test -n ${dtb}; then
385             echo debug: [dtb=${dtb}] ... ;
386             setenv fdtfile ${dtb};
387             echo Using: dtb=${fdtfile} ...;
388         fi;
389         echo Checking if uname_r is set in gcboot/uEnv.txt...;
390         if test -n ${uname_r}; then
391             gpio set 56;
392             setenv oldroot gcdev/mmcblk${mmcdev}p${mmcpart};
393             echo Running uname_boot ...;
394             run uname_boot;
395         fi;
396     fi;
397 done;
398 fi;
399 #EEWIKI_UNAME_BOOT
400

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461         setenv fdt_dir gcbboot/dtb;
462         if test -e ${devtype} ${bootpart} ${fdtdir}gc${-
{fdtfile}}; then
463             run loadfdt;
464         else
465             setenv fdt_dir gcbboot;
466             if test -e ${devtype} ${bootpart} ${fdtdir}gc${-
{fdtfile}}; then
467                 run loadfdt;
468             else
469                 if test -e ${devtype} ${bootpart} ${fdtfile};
then
470                     run loadfdt;
471                 else
472                     echo; echo unable to find [dtb=${fdtfile}]
did you name it correctly? ...;
473                     run failumsboot;
474                 fi;
475             fi;
476         fi;
477     fi;
478 fi;
479 fi;
480 fi;
481 fi;
482 if test -n ${enable_uboot_overlays}; then
483     setenv fdt_buffer 0x60000;
484     if test -n ${uboot_fdt_buffer}; then
485         setenv fdt_buffer ${uboot_fdt_buffer};
486     fi;
487     echo uboot_overlays: [fdt_buffer=${fdt_buffer}] ... ;
488     if test -n ${uboot_silicon}; then
489         setenv uboot_overlay ${uboot_silicon};
490         run virtualloadoverlay;
491     fi;
492     if test -n ${uboot_model}; then
493         setenv uboot_overlay ${uboot_model};
494         run virtualloadoverlay;
495     fi;
496     if test -n ${disable_uboot_overlay_adc}; then
497         echo uboot_overlays: uboot loading of [BB-ADC-00A0.dtb] disabled
by gcbboot/uEnv.txt [disable_uboot_overlay_adc=1]...;
498     else
499         setenv uboot_overlay BB-ADC-00A0.dtb;
500         run virtualloadoverlay;
501     fi;
502     if test -n ${uboot_overlay_addr0}; then
503         if test -n ${disable_uboot_overlay_addr0}; then
504             echo uboot_overlays: uboot loading of [${uboot_overlay_addr0}]
disabled by gcbboot/uEnv.txt [disable_uboot_overlay_addr0=1]...;
505         else
506             setenv uboot_overlay ${uboot_overlay_addr0};
507             run virtualloadoverlay;
508         fi;
509     fi;
510     if test -n ${uboot_overlay_addr1}; then
511         if test -n ${disable_uboot_overlay_addr1}; then
512             echo uboot_overlays: uboot loading of [${uboot_overlay_addr1}]
disabled by gcbboot/uEnv.txt [disable_uboot_overlay_addr1=1]...;
513         else
514             setenv uboot_overlay ${uboot_overlay_addr1};
515             run virtualloadoverlay;
516         fi;
517     fi;
518     if test -n ${uboot_overlay_addr2}; then
519         if test -n ${disable_uboot_overlay_addr2}; then
520             echo uboot_overlays: uboot loading of [${uboot_overlay_addr2}]
disabled by gcbboot/uEnv.txt [disable_uboot_overlay_addr2=1]...;
521         else

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522         setenv uboot_overlay ${uboot_overlay_addr2};
523         run virtualloadoverlay;
524     fi;
525 fi;
526 if test -n ${uboot_overlay_addr3}; then
527     if test -n ${disable_uboot_overlay_addr3}; then
528         echo uboot_overlays: uboot loading of [${uboot_overlay_addr3}]
disabled by gcbboot/uEnv.txt [disable_uboot_overlay_addr3=1]...;
529     else
530         setenv uboot_overlay ${uboot_overlay_addr3};
531         run virtualloadoverlay;
532     fi;
533 fi;
534 if test -n ${uboot_overlay_addr4}; then
535     setenv uboot_overlay ${uboot_overlay_addr4};
536     run virtualloadoverlay;
537 fi;
538 if test -n ${uboot_overlay_addr5}; then
539     setenv uboot_overlay ${uboot_overlay_addr5};
540     run virtualloadoverlay;
541 fi;
542 if test -n ${uboot_overlay_addr6}; then
543     setenv uboot_overlay ${uboot_overlay_addr6};
544     run virtualloadoverlay;
545 fi;
546 if test -n ${uboot_overlay_addr7}; then
547     setenv uboot_overlay ${uboot_overlay_addr7};
548     run virtualloadoverlay;
549 fi;
550 if test -n ${uboot_emmc}; then
551     if test -n ${disable_uboot_overlay_emmc}; then
552         echo uboot_overlays: uboot loading of [${uboot_emmc}] disabled
by gcbboot/uEnv.txt [disable_uboot_overlay_emmc=1]...;
553     else
554         setenv uboot_overlay ${uboot_emmc};
555         run virtualloadoverlay;
556     fi;
557 fi;
558 if test -n ${uboot_video}; then
559     if test -n ${disable_uboot_overlay_video}; then
560         echo uboot_overlays: uboot loading of [${uboot_video}] disabled
by gcbboot/uEnv.txt [disable_uboot_overlay_video=1]...;
561     else
562         if test -n ${disable_uboot_overlay_audio}; then
563             echo uboot_overlays: uboot loading of [${uboot_video}]
disabled by gcbboot/uEnv.txt [disable_uboot_overlay_audio=1]...;
564             setenv uboot_overlay ${uboot_video_naudio};
565             run virtualloadoverlay;
566         else
567             setenv uboot_overlay ${uboot_video};
568             run virtualloadoverlay;
569         fi;
570     fi;
571 fi;
572 if test -n ${uboot_wireless}; then
573     if test -n ${disable_uboot_overlay_wireless}; then
574         echo uboot_overlays: uboot loading of [${uboot_wireless}]
disabled by gcbboot/uEnv.txt [disable_uboot_overlay_wireless=1]...;
575     else
576         setenv uboot_overlay ${uboot_wireless};
577         run virtualloadoverlay;
578     fi;
579 fi;
580 if test -n ${uboot_overlay_pru}; then
581     setenv uboot_overlay ${uboot_overlay_pru};
582     run virtualloadoverlay;
583 fi;
584 if test -n ${uboot_overlay_pru_add}; then
585     setenv uboot_overlay ${uboot_overlay_pru_add};

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586         run virtualloadoverlay;
587     fi;
588     if test -n ${dtb_overlay}; then
589         setenv uboot_overlay ${dtb_overlay};
590         echo uboot_overlays: [dtb_overlay=${uboot_overlay}] ... ;
591         run virtualloadoverlay;
592     fi;
593     if test -n ${uboot_detected_capes}; then
594         echo uboot_overlays: [uboot_detected_capes=${uboot_detected_capes_addr0}${uboot_detected_capes_addr1}${uboot_detected_capes_addr2}${uboot_detected_capes_addr3}] ... ;
595         setenv uboot_detected_capes uboot_detected_capes=${uboot_detected_capes_addr0}${uboot_detected_capes_addr1}${uboot_detected_capes_addr2}${uboot_detected_capes_addr3};
596     fi;
597     else
598         echo uboot_overlays: add [enable_uboot_overlays=1] to gcboot/uEnv.txt
to enable...;
599     fi;
600     setenv rdfile initrd.img-${uname_r};
601     if test -e ${devtype} ${bootpart} ${bootdir}gc${rdfile}; then
602         echo loading ${bootdir}gc${rdfile} ...;
603         run loadrd;
604         if test -n ${netinstall_enable}; then
605             run args_netinstall; run message;
606             echo debug: [${bootargs}] ... ;
607             echo debug: [bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr}] ... ;
608             bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr};
609         fi;
610         if test -n ${uenv_root}; then
611             run args_uenv_root;
612             echo debug: [${bootargs}] ... ;
613             echo debug: [bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr}] ... ;
614             bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr};
615         fi;
616         if test -n ${uuid}; then
617             run args_mmc_uuid;
618             echo debug: [${bootargs}] ... ;
619             echo debug: [bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr}] ... ;
620             bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr};
621         fi;
622         run args_mmc_old;
623         echo debug: [${bootargs}] ... ;
624         echo debug: [bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr}] ... ;
625         bootz ${loadaddr} ${rdaddr}:${rdsiz} ${fdtaddr};
626     else
627         if test -n ${uenv_root}; then
628             run args_uenv_root;
629             echo debug: [${bootargs}] ... ;
630             echo debug: [bootz ${loadaddr} - ${fdtaddr}] ... ;
631             bootz ${loadaddr} - ${fdtaddr};
632         fi;
633         run args_mmc_old;
634         echo debug: [${bootargs}] ... ;
635         echo debug: [bootz ${loadaddr} - ${fdtaddr}] ... ;
636         bootz ${loadaddr} - ${fdtaddr};
637     fi;
638 fi;
639
640 #EEPROM_PROGRAMMING
641 eeprom_dump=i2c dev 0;
642 i2c md 0x50 0x00.2 20;
643
644 eeprom_blank=i2c dev 0;
645 i2c mw 0x50 0x00.2 ff;
646 i2c mw 0x50 0x01.2 ff;
647 i2c mw 0x50 0x02.2 ff;
648 i2c mw 0x50 0x03.2 ff;
649 i2c mw 0x50 0x04.2 ff;

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```
650     i2c mw 0x50 0x05.2 ff;
651     i2c mw 0x50 0x06.2 ff;
652     i2c mw 0x50 0x07.2 ff;
653     i2c mw 0x50 0x08.2 ff;
654     i2c mw 0x50 0x09.2 ff;
655     i2c mw 0x50 0x0a.2 ff;
656     i2c mw 0x50 0x0b.2 ff;
657     i2c mw 0x50 0x0c.2 ff;
658     i2c mw 0x50 0x0d.2 ff;
659     i2c mw 0x50 0x0e.2 ff;
660     i2c mw 0x50 0x0f.2 ff;
661     i2c mw 0x50 0x10.2 ff;
662     i2c mw 0x50 0x11.2 ff;
663     i2c mw 0x50 0x12.2 ff;
664     i2c mw 0x50 0x13.2 ff;
665     i2c mw 0x50 0x14.2 ff;
666     i2c mw 0x50 0x15.2 ff;
667     i2c mw 0x50 0x16.2 ff;
668     i2c mw 0x50 0x17.2 ff;
669     i2c mw 0x50 0x18.2 ff;
670     i2c mw 0x50 0x19.2 ff;
671     i2c mw 0x50 0x1a.2 ff;
672     i2c mw 0x50 0x1b.2 ff;
673     i2c mw 0x50 0x1c.2 ff;
674     i2c mw 0x50 0x1d.2 ff;
675     i2c mw 0x50 0x1e.2 ff;
676     i2c mw 0x50 0x1f.2 ff;
677
678     eeprom_bbb_header=i2c dev 0;
679     i2c mw 0x50 0x00.2 aa;
680     i2c mw 0x50 0x01.2 55;
681     i2c mw 0x50 0x02.2 33;
682     i2c mw 0x50 0x03.2 ee;
683     i2c mw 0x50 0x04.2 41;
684     i2c mw 0x50 0x05.2 33;
685     i2c mw 0x50 0x06.2 33;
686     i2c mw 0x50 0x07.2 35;
687     i2c mw 0x50 0x08.2 42;
688     i2c mw 0x50 0x09.2 4e;
689     i2c mw 0x50 0x0a.2 4c;
690     i2c mw 0x50 0x0b.2 54;
691
692     eeprom_bbb_l_footer=
693     i2c mw 0x50 0x0c.2 42;
694     i2c mw 0x50 0x0d.2 4c;
695     i2c mw 0x50 0x0e.2 41;
696     i2c mw 0x50 0x0f.2 32;
697
698     eeprom_bbb_w_footer=
699     i2c mw 0x50 0x0c.2 42;
700     i2c mw 0x50 0x0d.2 57;
701     i2c mw 0x50 0x0e.2 41;
702     i2c mw 0x50 0x0f.2 35;
703
704     eeprom_bbgg_footer=
705     i2c mw 0x50 0x0c.2 47;
706     i2c mw 0x50 0x0d.2 47;
707     i2c mw 0x50 0x0e.2 31;
708     i2c mw 0x50 0x0f.2 41;
709
710     eeprom_pocketbeagle=
711     i2c mw 0x50 0x00.2 aa;
712     i2c mw 0x50 0x01.2 55;
713     i2c mw 0x50 0x02.2 33;
714     i2c mw 0x50 0x03.2 ee;
715     i2c mw 0x50 0x04.2 41;
716     i2c mw 0x50 0x05.2 33;
717     i2c mw 0x50 0x06.2 33;
718     i2c mw 0x50 0x07.2 35;
```

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719     i2c mw 0x50 0x08.2 50;
720     i2c mw 0x50 0x09.2 42;
721     i2c mw 0x50 0x0a.2 47;
722     i2c mw 0x50 0x0b.2 4c;
723     i2c mw 0x50 0x0c.2 30;
724     i2c mw 0x50 0x0d.2 30;
725     i2c mw 0x50 0x0e.2 41;
726     i2c mw 0x50 0x0f.2 32;
727
728     eeprom_beaglelogic=
729     i2c mw 0x50 0x00.2 aa;
730     i2c mw 0x50 0x01.2 55;
731     i2c mw 0x50 0x02.2 33;
732     i2c mw 0x50 0x03.2 ee;
733     i2c mw 0x50 0x04.2 41;
734     i2c mw 0x50 0x05.2 33;
735     i2c mw 0x50 0x06.2 33;
736     i2c mw 0x50 0x07.2 35;
737     i2c mw 0x50 0x08.2 42;
738     i2c mw 0x50 0x09.2 4c;
739     i2c mw 0x50 0x0a.2 47;
740     i2c mw 0x50 0x0b.2 43;
741     i2c mw 0x50 0x0c.2 30;
742     i2c mw 0x50 0x0d.2 30;
743     i2c mw 0x50 0x0e.2 30;
744     i2c mw 0x50 0x0f.2 41;
745
746
747     #NANDARGS
748     mtdids=" CONFIG_MTDIDS_DEFAULT "
749     mtdparts=" CONFIG_MTDPARTS_DEFAULT "
750     nandargs=setenv bootargs console=${console}
751         ${optargs}
752         root=${nandroot}
753         rootfstype=${nandrootfstype}
754     nandroot=ubi0:rootfs rw ubi.mtd=NAND.file-system,2048
755     nandrootfstype=ubifs rootwait=1
756     nandboot=echo Booting from nand ...;
757         run nandargs;
758         nand read ${fdtaddr} NAND.u-boot-spl-os;
759         nand read ${loadaddr} NAND.kernel;
760         bootz ${loadaddr} - ${fdtaddr}
761
762     #NETARGS
763     static_ip=${ipaddr}:${serverip}:${gatewayip}:${netmask}:${hostname}
764         ::off
765     nfsopts=nolock
766     rootpath=gcexport/rootfs
767     netloadimage=tftp ${loadaddr} ${bootfile}
768     netloadfdt=tftp ${fdtaddr} ${fdtfile}
769     netargs=setenv bootargs console=${console}
770         ${optargs}
771         root=gcdev/nfs
772         nfsroot=${serverip}:${rootpath},${nfsopts} rw
773         ip=dhcp
774     netboot=echo Booting from network ...;
775         setenv autoload no;
776         dhcp;
777         run netloadimage;
778         run netloadfdt;
779         run netargs;
780         bootz ${loadaddr} - ${fdtaddr}
781
782     #DFUARGS
783     #DFU_ALT_INFO_EMMC
784     dfu_alt_info_emmc=
785         rawemmc raw 0 3751936;
786         boot part 1 1;
787         rootfs part 1 2;

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```

788     MLO fat 1 1;
789     MLO.raw raw 0x100 0x100;
790     u-boot.img.raw raw 0x300 0x1000;
791     u-env.raw raw 0x1300 0x200;
792     spl-os-args.raw raw 0x1500 0x200;
793     spl-os-image.raw raw 0x1700 0x6900;
794     spl-os-args fat 1 1;
795     spl-os-image fat 1 1;
796     u-boot.img fat 1 1;
797     uEnv.txt fat 1 1
798
799 #DFU_ALT_INFO_MMC
800 dfu_alt_info_mmc=
801     boot part 0 1;
802     rootfs part 0 2;
803     MLO fat 0 1;
804     MLO.raw raw 0x100 0x100;
805     u-boot.img.raw raw 0x300 0x1000;
806     u-env.raw raw 0x1300 0x200;
807     spl-os-args.raw raw 0x1500 0x200;
808     spl-os-image.raw raw 0x1700 0x6900;
809     spl-os-args fat 0 1;
810     spl-os-image fat 0 1;
811     u-boot.img fat 0 1;
812     uEnv.txt fat 0 1
813
814 #DFU_ALT_INFO_RAM
815 dfu_alt_info_ram=
816     kernel ram 0x80200000 0x4000000;
817     fdt ram 0x80f80000 0x80000;
818     ramdisk ram 0x81000000 0x4000000
819
820 #DFU_ALT_INFO_NAND
821 dfu_alt_info_nand=
822     SPL part 0 1;
823     SPL.backup1 part 0 2;
824     SPL.backup2 part 0 3;
825     SPL.backup3 part 0 4;
826     u-boot part 0 5;
827     u-boot-spl-os part 0 6;
828     kernel part 0 8;
829     rootfs part 0 9
830
831 #BOOTENV
832 #BOOTENV_SHARED_MMC
833 mmc_boot=if mmc dev ${devnum}; then devtype=mmc; run scan_dev_for_boot_part; fi
834 #BOOTENV_SHARED_USB
835 boot_net_usb_start=usb start
836 usb_boot=usb start; if usb dev ${devnum}; then devtype=usb; run
scan_dev_for_boot_part; fi
837 #BOOTENV_SHARED_EFI
838 boot_efi_binary=
839     if fdt addr ${fdt_addr_r}; then
840         bootefi bootmgr ${fdt_addr_r};
841     else
842         bootefi bootmgr ${fdtcontroladdr};
843     fi;
844     load ${devtype} ${devnum}:${distro_bootpart}
845         ${kernel_addr_r} efigcboot/"bootarm.efi";
846     if fdt addr ${fdt_addr_r}; then
847         bootefi ${kernel_addr_r} ${fdt_addr_r};
848     else
849         bootefi ${kernel_addr_r} ${fdtcontroladdr};
850     fi
851
852 load_efi_dtb=
853     load ${devtype} ${devnum}:${distro_bootpart}
854         ${fdt_addr_r} ${prefix}${efi_fdtfile}
855

```

```

856 efi_dtb_prefixes=gc /dtb/ /dtb/current/
857 scan_dev_for_efi=
858     setenv efi_fdtfile ${fdtfile};
859     if test -z${fdtfile}" -a -n${soc}"; then
860         setenv efi_fdtfile ${soc}-${board}${boardver}.dtb;
861     fi;
862
863     for prefix in ${efi_dtb_prefixes}; do
864         if test -e ${devtype}
865             ${devnum}:${distro_bootpart}
866             ${prefix}${efi_fdtfile}; then
867             run load_efi_dtb;
868         fi;
869     done;
870     if test -e ${devtype} ${devnum}:${distro_bootpart}
871         efigcboot/"bootarm.efi"; then
872         echo Found EFI removable media binary
873         efigcboot/"bootarm.efi";
874         run boot_efi_binary;
875         echo EFI LOAD FAILED: continuing...;
876     fi;
877     setenv efi_fdtfile
878
879 boot_prefixes=gc /boot/
880 boot_scripts=boot.scr.uimg boot.scr
881 boot_script_dhcp=boot.scr.uimg
882 #BOOTENV_BOOT_TARGETS
883 boot_targets=mmc0 legacy_mmc0 mmc1 legacy_mmc1 pxe dhcp
884
885 boot_syslinux_conf=extlinuxgcextlinux.conf
886 boot_extlinux=
887     sysboot ${devtype} ${devnum}:${distro_bootpart} any
888     ${scriptaddr} ${prefix}${boot_syslinux_conf}
889
890 scan_dev_for_extlinux=
891     if test -e ${devtype}
892         ${devnum}:${distro_bootpart}
893         ${prefix}${boot_syslinux_conf}; then
894         echo Found ${prefix}${boot_syslinux_conf};
895         run boot_extlinux;
896         echo SCRIPT FAILED: continuing...;
897     fi
898
899 boot_a_script=
900     load ${devtype} ${devnum}:${distro_bootpart}
901     ${scriptaddr} ${prefix}${script};
902     source ${scriptaddr}
903
904 scan_dev_for_scripts=
905     for script in ${boot_scripts}; do
906         if test -e ${devtype}
907             ${devnum}:${distro_bootpart}
908             ${prefix}${script}; then
909             echo Found U-Boot script
910             ${prefix}${script};
911             run boot_a_script;
912             echo SCRIPT FAILED: continuing...;
913         fi;
914     done
915
916 scan_dev_for_boot=
917     echo Scanning ${devtype}
918     ${devnum}:${distro_bootpart}...;
919     for prefix in ${boot_prefixes}; do
920         run scan_dev_for_extlinux;
921         run scan_dev_for_scripts;
922     done;
923 #SCAN_DEV_FOR_EFI
924 run scan_dev_for_efi;

```

```

925
926
927 scan_dev_for_boot_part=
928     part list ${devtype} ${devnum} -bootable devplist;
929     env exists devplist || setenv devplist 1;
930     for distro_bootpart in ${devplist}; do
931         if fstype ${devtype}
932             ${devnum}:${distro_bootpart}
933             bootfstype; then
934             run scan_dev_for_boot;
935         fi;
936     done;
937     setenv devplist
938
939 #BOOT_TARGET_DEVICES(BOOTENV_DEV)
940 bootcmd_mmc0=devnum=0; run mmc_boot
941 bootcmd_legacy_mmc0=gpio clear 56; gpio clear 55; gpio clear 54; gpio set 53;
942     setenv devtype mmc; setenv mmcdev 0; setenv bootpart 0:1 ; run boot
943 bootcmd_mmc1=devnum=1; run mmc_boot
944 bootcmd_legacy_mmc1=gpio clear 56; gpio clear 55; gpio clear 54; gpio set 53;
945     setenv devtype mmc; setenv mmcdev 1; setenv bootpart 1:1 ; run boot
946 bootcmd_pxe=run boot_net_usb_start; dhcp; if pxe get; then pxe boot; fi
947 bootcmd_dhcp=run boot_net_usb_start; if dhcp ${scriptaddr} ${boot_script_dhcp};
948     then source ${scriptaddr}; fi;setenv efi_fdtfile ${fdtfile}; if test -z${fdtfile}" -
949     a -n${soc}"; then setenv efi_fdtfile ${soc}-${board}${boardver}.dtb; fi; setenv
950     efi_old_vci ${bootp_vci};setenv efi_old_arch ${bootp_arch};setenv bootp_vci
951     PXEClient:Arch:00010:UNDI:003000;setenv bootp_arch 0xa;if dhcp ${kernel_addr_r};
952     then tftpboot ${fdt_addr_r} dtbgc${efi_fdtfile};if fdt addr ${fdt_addr_r}; then
953     bootefi ${kernel_addr_r} ${fdt_addr_r}; else bootefi ${kernel_addr_r} $
954     {fdtcontroladdr};fi;fi;setenv bootp_vci ${efi_old_vci};setenv bootp_arch $
955     {efi_old_arch};setenv efi_fdtfile;setenv efi_old_arch;setenv efi_old_vci;
956
957
958 distro_bootcmd=
959     for target in ${boot_targets}; do
960         run bootcmd_${target};
961     done

```