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#

# FORMAT:

# < PARAM TYPE=PARAM\_TYPE NAME=PARAM\_NAME >

# ARG1\_NAME ARG1\_PATH\_VAL

# ARG2\_NAME ARG2\_PATH\_VAL

# ...

# This starts a section of PARAM definitions, in which each line

# has the syntax below:

# ARG\_NAME ARG\_PATH\_VAL

# ARG\_NAME is a macro name for argument value ARG\_PATH\_VAL.

# PARAM\_TYPE can be FILE, or CLOCK.

#

# < POWER\_MODEL ID=id\_num NAME=mode\_name >

# PARAM1\_NAME ARG11\_NAME ARG11\_VAL

# PARAM1\_NAME ARG12\_NAME ARG12\_VAL

# PARAM2\_NAME ARG21\_NAME ARG21\_VAL

# ...

# This starts a section of POWER\_MODEL configurations, followed by

# lines with parameter settings as the format below:

# PARAM\_NAME ARG\_NAME ARG\_VAL

# PARAM\_NAME and ARG\_NAME are defined in PARAM definition sections.

# ARG\_VAL is an integer for PARAM\_TYPE of CLOCK, and -1 is taken

# as INT\_MAX. ARG\_VAL is a string for PARAM\_TYPE of FILE.

# This file must contain at least one POWER\_MODEL section.

#

# < PM\_CONFIG DEFAULT=default\_mode >

# This is a mandatory section to specify one of the defined power

# model as the default.

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# #

# PARAM DEFINITIONS #

# #

###########################

< PARAM TYPE=FILE NAME=CPU\_ONLINE >

CORE\_0 /sys/devices/system/cpu/cpu0/online

CORE\_1 /sys/devices/system/cpu/cpu1/online

CORE\_2 /sys/devices/system/cpu/cpu2/online

CORE\_3 /sys/devices/system/cpu/cpu3/online

< PARAM TYPE=FILE NAME=GPU\_POWER\_CONTROL\_ENABLE >

GPU\_PWR\_CNTL\_EN /sys/devices/gpu.0/power/control

< PARAM TYPE=FILE NAME=GPU\_POWER\_CONTROL\_DISABLE >

GPU\_PWR\_CNTL\_DIS /sys/devices/gpu.0/power/control

< PARAM TYPE=CLOCK NAME=CPU\_A57 >

FREQ\_TABLE /sys/devices/system/cpu/cpu0/cpufreq/scaling\_available\_frequencies

MAX\_FREQ /sys/devices/system/cpu/cpu0/cpufreq/scaling\_max\_freq

MIN\_FREQ /sys/devices/system/cpu/cpu0/cpufreq/scaling\_min\_freq

FREQ\_TABLE\_KNEXT /sys/devices/system/cpu/cpu0/cpufreq/scaling\_available\_frequencies

MAX\_FREQ\_KNEXT /sys/devices/system/cpu/cpu0/cpufreq/scaling\_max\_freq

MIN\_FREQ\_KNEXT /sys/devices/system/cpu/cpu0/cpufreq/scaling\_min\_freq

< PARAM TYPE=CLOCK NAME=GPU >

FREQ\_TABLE /sys/devices/gpu.0/devfreq/57000000.gpu/available\_frequencies

MAX\_FREQ /sys/devices/gpu.0/devfreq/57000000.gpu/max\_freq

MIN\_FREQ /sys/devices/gpu.0/devfreq/57000000.gpu/min\_freq

FREQ\_TABLE\_KNEXT /sys/devices/17000000.gv11b/devfreq/devfreq0/available\_frequencies

MAX\_FREQ\_KNEXT /sys/devices/gpu.0/devfreq/57000000.gpu/max\_freq

MIN\_FREQ\_KNEXT /sys/devices/gpu.0/devfreq/57000000.gpu/min\_freq

< PARAM TYPE=CLOCK NAME=EMC >

MAX\_FREQ /sys/kernel/nvpmodel\_emc\_cap/emc\_iso\_cap

MAX\_FREQ\_KNEXT /sys/kernel/nvpmodel\_emc\_cap/emc\_iso\_cap

###########################

# #

# POWER\_MODEL DEFINITIONS #

# #

###########################

# MAXN is the NONE power model to release all constraints

< POWER\_MODEL ID=0 NAME=MAXN >

CPU\_ONLINE CORE\_0 1

CPU\_ONLINE CORE\_1 1

CPU\_ONLINE CORE\_2 1

CPU\_ONLINE CORE\_3 1

CPU\_A57 MIN\_FREQ 0

CPU\_A57 MAX\_FREQ -1

GPU\_POWER\_CONTROL\_ENABLE GPU\_PWR\_CNTL\_EN on

GPU MIN\_FREQ 0

GPU MAX\_FREQ -1

GPU\_POWER\_CONTROL\_DISABLE GPU\_PWR\_CNTL\_DIS auto

EMC MAX\_FREQ 0

< POWER\_MODEL ID=1 NAME=5W >

CPU\_ONLINE CORE\_0 1

CPU\_ONLINE CORE\_1 1

CPU\_ONLINE CORE\_2 0

CPU\_ONLINE CORE\_3 0

CPU\_A57 MIN\_FREQ 0

CPU\_A57 MAX\_FREQ 918000

GPU\_POWER\_CONTROL\_ENABLE GPU\_PWR\_CNTL\_EN on

GPU MIN\_FREQ 0

GPU MAX\_FREQ 640000000

GPU\_POWER\_CONTROL\_DISABLE GPU\_PWR\_CNTL\_DIS auto

EMC MAX\_FREQ 1600000000

< POWER\_MODEL ID=2 NAME=VEX >

CPU\_ONLINE CORE\_0 1

CPU\_ONLINE CORE\_1 1

CPU\_ONLINE CORE\_2 1

CPU\_ONLINE CORE\_3 1

CPU\_A57 MIN\_FREQ 0

CPU\_A57 MAX\_FREQ 825600

GPU\_POWER\_CONTROL\_ENABLE GPU\_PWR\_CNTL\_EN on

GPU MIN\_FREQ 0

GPU MAX\_FREQ 844800000

GPU\_POWER\_CONTROL\_DISABLE GPU\_PWR\_CNTL\_DIS auto

EMC MAX\_FREQ 1600000000

# mandatory section to configure the default mode

< PM\_CONFIG DEFAULT=2 >