# Optiboot Arduino support

# http://optiboot.googlecode.com

# Peter Knight, 2010

# Bill Westfield, 2013 - now includes build.variant for 1.0.2 and later

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atmega328o.name=[Optiboot] Arduino Duemilanove or Nano w/ ATmega328

atmega328o.upload.protocol=arduino

atmega328o.upload.maximum\_size=32256

atmega328o.upload.speed=115200

atmega328o.bootloader.low\_fuses=0xff

atmega328o.bootloader.high\_fuses=0xde

atmega328o.bootloader.extended\_fuses=0x05

atmega328o.bootloader.path=optiboot

atmega328o.bootloader.file=optiboot\_atmega328.hex

atmega328o.bootloader.unlock\_bits=0x3F

atmega328o.bootloader.lock\_bits=0x0F

atmega328o.build.mcu=atmega328p

atmega328o.build.f\_cpu=16000000L

atmega328o.build.core=arduino:arduino

atmega328o.build.variant=arduino:standard

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diecimilao.name=[Optiboot] Arduino Diecimila, Duemilanove, Nano, NG w/ ATmega168

diecimilao.upload.protocol=arduino

diecimilao.upload.maximum\_size=15872

diecimilao.upload.speed=115200

diecimilao.bootloader.low\_fuses=0xff

diecimilao.bootloader.high\_fuses=0xdd

diecimilao.bootloader.extended\_fuses=0x04

diecimilao.bootloader.path=optiboot

diecimilao.bootloader.file=optiboot\_diecimila.hex

diecimilao.bootloader.unlock\_bits=0x3F

diecimilao.bootloader.lock\_bits=0x0F

diecimilao.build.mcu=atmega168

diecimilao.build.f\_cpu=16000000L

diecimilao.build.core=arduino:arduino

diecimilao.build.variant=arduino:standard

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minio.name=[Optiboot] Arduino Mini

minio.upload.protocol=arduino

minio.upload.maximum\_size=15872

minio.upload.speed=115200

minio.bootloader.low\_fuses=0xff

minio.bootloader.high\_fuses=0xdd

minio.bootloader.extended\_fuses=0x02

minio.bootloader.path=optiboot

minio.bootloader.file=optiboot\_ng.hex

minio.bootloader.unlock\_bits=0x3F

minio.bootloader.lock\_bits=0x0F

minio.build.mcu=atmega168

minio.build.f\_cpu=16000000L

minio.build.core=arduino:arduino

minio.build.variant=arduino:eightanaloginputs

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lilypad328o.name=[Optiboot] LilyPad Arduino w/ ATmega328

lilypad328o.upload.protocol=arduino

lilypad328o.upload.maximum\_size=32256

lilypad328o.upload.speed=115200

lilypad328o.bootloader.low\_fuses=0xff

lilypad328o.bootloader.high\_fuses=0xdc

lilypad328o.bootloader.extended\_fuses=0x05

lilypad328o.bootloader.path=optiboot

lilypad328o.bootloader.file=optiboot\_atmega328\_pro\_8MHz.hex

lilypad328o.bootloader.unlock\_bits=0x3F

lilypad328o.bootloader.lock\_bits=0x0F

lilypad328o.build.mcu=atmega328p

lilypad328o.build.f\_cpu=8000000L

lilypad328o.build.core=arduino:arduino

lilypad328o.build.variant=arduino:standard

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lilypado.name=[Optiboot] LilyPad Arduino w/ ATmega168

lilypado.upload.protocol=arduino

lilypado.upload.maximum\_size=15872

lilypado.upload.speed=115200

lilypado.bootloader.low\_fuses=0xe2

lilypado.bootloader.high\_fuses=0xdd

lilypado.bootloader.extended\_fuses=0x02

lilypado.bootloader.path=lilypad

lilypado.bootloader.file=optiboot\_lilypad.hex

lilypado.bootloader.unlock\_bits=0x3F

lilypado.bootloader.lock\_bits=0x0F

lilypado.build.mcu=atmega168

lilypado.build.f\_cpu=8000000L

lilypado.build.core=arduino:arduino

lilypado.build.variant=arduino:standard

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pro328o.name=[Optiboot] Arduino Pro or Pro Mini (3.3V, 8 MHz) w/ ATmega328

pro328o.upload.protocol=arduino

pro328o.upload.maximum\_size=32256

pro328o.upload.speed=115200

pro328o.bootloader.low\_fuses=0xff

pro328o.bootloader.high\_fuses=0xdc

pro328o.bootloader.extended\_fuses=0x05

pro328o.bootloader.path=optiboot

pro328o.bootloader.file=optiboot\_atmega328\_pro\_8MHz.hex

pro328o.bootloader.unlock\_bits=0x3F

pro328o.bootloader.lock\_bits=0x0F

pro328o.build.mcu=atmega328p

pro328o.build.f\_cpu=8000000L

pro328o.build.core=arduino:arduino

pro328o.build.variant=arduino:standard

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proo.name=[Optiboot] Arduino Pro or Pro Mini (3.3V, 8 MHz) w/ ATmega168

proo.upload.protocol=arduino

proo.upload.maximum\_size=15872

proo.upload.speed=115200

proo.bootloader.low\_fuses=0xc6

proo.bootloader.high\_fuses=0xdd

proo.bootloader.extended\_fuses=0x02

proo.bootloader.path=optiboot

proo.bootloader.file=optiboot\_pro\_8MHz.hex

proo.bootloader.unlock\_bits=0x3F

proo.bootloader.lock\_bits=0x0F

proo.build.mcu=atmega168

proo.build.f\_cpu=8000000L

proo.build.core=arduino:arduino

proo.build.variant=arduino:standard

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megao.name=[Optiboot] Arduino Mega1280

megao.upload.protocol=arduino

megao.upload.maximum\_size=130048

megao.upload.speed=115200

megao.bootloader.low\_fuses=0xff

megao.bootloader.high\_fuses=0xde

megao.bootloader.extended\_fuses=0xf5

megao.bootloader.path=optiboot

megao.bootloader.file=optiboot\_atmega1280.hex

megao.bootloader.unlock\_bits=0x3F

megao.bootloader.lock\_bits=0x0F

megao.build.mcu=atmega1280

megao.build.f\_cpu=16000000L

megao.build.core=arduino:arduino

megao.build.variant=arduino:mega

atmega8o.name=[Optiboot] Arduino NG or older w/ ATmega8

atmega8o.upload.protocol=arduino

atmega8o.upload.maximum\_size=7680

atmega8o.upload.speed=115200

atmega8o.bootloader.low\_fuses=0xbf

atmega8o.bootloader.high\_fuses=0xdc

atmega8o.bootloader.path=optiboot

atmega8o.bootloader.file=optiboot\_atmega8.hex

atmega8o.bootloader.unlock\_bits=0x3F

atmega8o.bootloader.lock\_bits=0x0F

atmega8o.build.mcu=atmega8

atmega8o.build.f\_cpu=16000000L

atmega8o.build.core=arduino:arduino

atmega8o.build.variant=arduino:standard

atmega88o.name=[Optiboot] Arduino NG or older w/ ATmega88

atmega88o.upload.protocol=arduino

atmega88o.upload.maximum\_size=7680

atmega88o.upload.speed=115200

atmega88o.bootloader.low\_fuses=0xff

atmega88o.bootloader.high\_fuses=0xdd

atmega88o.bootloader.extended\_fuses=0x04

atmega88o.bootloader.path=optiboot

atmega88o.bootloader.file=optiboot\_atmega88.hex

atmega88o.bootloader.unlock\_bits=0x3F

atmega88o.bootloader.lock\_bits=0x0F

atmega88o.build.mcu=atmega88

atmega88o.build.f\_cpu=16000000L

atmega88o.build.core=arduino:arduino

atmega88o.build.variant=arduino:standard

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# sanguinoo.name=[Optiboot] Sanguino (work in progress)

# sanguinoo.upload.protocol=arduino

# sanguinoo.upload.maximum\_size=63488

# sanguinoo.upload.speed=115200

# sanguinoo.bootloader.low\_fuses=0xff

# sanguinoo.bootloader.high\_fuses=0xdc

# sanguinoo.bootloader.extended\_fuses=0xfd

# sanguinoo.bootloader.path=optiboot

# sanguinoo.bootloader.file=optiboot\_atmega644p.hex

# sanguinoo.bootloader.unlock\_bits=0x3F

# sanguinoo.bootloader.lock\_bits=0x0F

# sanguinoo.build.mcu=atmega644p

# sanguinoo.build.f\_cpu=16000000L

# sanguinoo.build.core=sanguino:sanguino

# sanguinoo.build.variant=sanguino:sanguino

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# lumineto.name=[Optiboot] Luminet (work in progress)

# lumineto.upload.protocol=arduino

# lumineto.upload.maximum\_size=7424

# lumineto.upload.speed=9600

# lumineto.bootloader.low\_fuses=0x62

# lumineto.bootloader.high\_fuses=0xdf

# lumineto.bootloader.extended\_fuses=0xfe

# lumineto.bootloader.path=optiboot

# lumineto.bootloader.file=optiboot\_luminet.hex

# lumineto.build.mcu=attiny84

# lumineto.build.f\_cpu=1000000L

# lumineto.build.core=luminet:luminet

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

atmega32o.name=[Optiboot] ATmega32 based board

atmega32o.upload.protocol=arduino

atmega32o.upload.maximum\_size=32256

atmega32o.upload.speed=115200

atmega32o.bootloader.low\_fuses=0xff

atmega32o.bootloader.high\_fuses=0xde

atmega32o.bootloader.path=optiboot

atmega32o.bootloader.file=optiboot\_atmega32.hex

atmega32o.bootloader.unlock\_bits=0x3F

atmega32o.bootloader.lock\_bits=0x0F

atmega32o.build.mcu=atmega32

atmega32o.build.f\_cpu=16000000L

atmega32o.build.core=arduino:arduino

atmega32o.build.variant=arduino:standard

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atmega1284o.name=[Optiboot] ATmega1284p

atmega1284o.upload.protocol=arduino

atmega1284o.upload.maximum\_size=130048

atmega1284o.upload.speed=115200

atmega1284o.bootloader.low\_fuses=0xf7

atmega1284o.bootloader.high\_fuses=0xde

atmega1284o.bootloader.extended\_fuses=0x05

atmega1284o.bootloader.path=optiboot

atmega1284o.bootloader.file=optiboot\_atmega1284p.hex

atmega1284o.bootloader.unlock\_bits=0x3F

atmega1284o.bootloader.lock\_bits=0x0F

atmega1284o.build.mcu=atmega1284p

atmega1284o.build.f\_cpu=16000000L

atmega1284o.build.core=arduino:arduino

atmega1284o.build.variant=arduino:standard