WIND™

SUPPORT NETWORK

# Wind River Diab Compiler Target Configuration Reference, 5.9.7

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# 1. TARGET CONFIGURATION

## 1.1. About Target Configuration

The compiler tools use a target configuration to set the compilation and linking parameters for a given target processor.

A complete target configuration includes the following:

- target processor
- object module format
- type of floating point support
- execution environment, which sets the default libraries for input/output and target operating system support

The following tables describe the available options.

For information about the different ways to specify a target configuration, see the Wind River Diab Compiler User's Guide for your architecture.

> Note: Some combinations of processor, floating point support, object module format, and environment may not be valid. Use the dctrl -t command to determine if a combination is valid.

# 2. ARCHITECTURES AND CONFIGURATIONS

## 2.1. ARM Target Configuration Options

ARM target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| ARM | ARM968E-S | ARM968E-ST |
| ARMCORTEXA15 | ARMCORTEXA15T2 | ARMCORTEXA5 |
| ARMCORTEXA5T2 | ARMCORTEXA53 | ARMCORTEXA53T2 |
| ARMCORTEXA7 | ARMCORTEXA7T2 | ARMCORTEXA8 |
| ARMCORTEXA8T2 | ARMCORTEXA9 | ARMCORTEXA9T2 |
| ARMCORTEXM0 | ARMCORTEXM0P | ARMCORTEXM1 |
| ARMCORTEXM3 | ARMCORTEXM4 | ARMCORTEXR4 |
| ARMCORTEXR4T2 | ARMCORTEXR5 | ARMCORTEXR5T2 |
| ARMCORTEXR7 | ARMCORTEXR7T2 | ARMT |
| ARMT2 | ARMV5E | ARMV5ET |
| ARMV6 | ARMV6K | ARMV6MT |
| ARMV7 | ARMV7A | ARMV7AT2 |
| ARMV7MT2 | ARMV7R | ARMV7RT2 |
| ARMV8A | ARMV8AT2 | ARMX |
| ARMXT | | |

ARM V8

| | | |
|---|---|---|
| ARMV8A | ARMV8AT2 | ARMCORTEXA53 |
| ARMCORTEXA53T2 | | |

### Object Module Formats

| Code | Description |
|---|---|
| E | ARM(XSCALE)/Thumb ELF Object Format |
| F | ARM(XSCALE)/Thumb AAELF Object Format |
| L | ARM(XSCALE)/Thumb ELF little-endian Object Format |
| M | ARM(XSCALE)/Thumb AAELF little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| A | Advanced SIMD/NEON |
| N | No Floating Point |
| S | Software Floating Point |
| V | Vector Floating Point |
| X | Vector Floating Point and Advanced SIMD/NEON |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| vxworks55 | vxworks55 - Interface with VxWorks 5.5 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |

| Code | Description |
|---|---|
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| vxworks7 | vxworks7 - Interface with VxWorks 7 |
| rtp7 | rtp7 - Real Time Process for VxWorks 7 |
| other | other - Enter text string when requested |

## 2.2. CKCORE Target Configuration Options

CKCORE target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| MCORE310 | CK510E | CK610 |
| CK610E | | |

### Object Module Formats

| Code | Description |
|---|---|
| E | M*CORE ELF ABI big-endian Object Format |
| L | M*CORE ELF ABI little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| other | other - Enter text string |

## 2.3. ColdFire Target Configuration Options

ColdFire target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| MCF51AC128 | MCF51AC256 | MCF51AG128 |
| MCF51AG96 | MCF51CN128 | MCF51JE128 |
| MCF51JE256 | MCF51JF128 | MCF51JF32 |
| MCF51JF64 | MCF51JM128 | MCF51JM32 |
| MCF51JM64 | MCF51JU128 | MCF51JU32 |
| MCF51JU64 | MCF51MM128 | MCF51MM256 |
| MCF51QE128 | MCF51QE32 | MCF51QE64 |
| MCF51QF128 | MCF51QF32 | MCF51QF64 |
| MCF51QH128 | MCF51QH32 | MCF51QH64 |
| MCF51QM128 | MCF51QM32 | MCF51QM64 |
| MCF51QU128 | MCF51QU32 | MCF51QU64 |
| MCF51QW256 | MCF5200 | MCF5202 |
| MCF5203 | MCF5204 | MCF5206 |
| MCF5206e | MCF5207 | MCF5208 |

| | | |
|---|---|---|
| MCF52100 | MCF5211 | MCF52110 |
| MCF5212 | MCF5213 | MCF5214 |
| MCF5216 | MCF52210 | MCF52211 |
| MCF52212 | MCF52213 | MCF52221 |
| MCF52223 | MCF52230 | MCF52231 |
| MCF52232 | MCF52233 | MCF52234 |
| MCF52235 | MCF52236 | MCF52252AF80 |
| MCF52252CAF66 | MCF52254AF80 | MCF52254CAF66 |
| MCF52255CAF80 | MCF52256AG80 | MCF52256CAG66 |
| MCF52256CVN66 | MCF52256VN80 | MCF52258AG80 |
| MCF52258CAG66 | MCF52258CVN66 | MCF52258VN80 |
| MCF52259CAG80 | MCF52259CVN80 | MCF52274 |
| MCF52277 | MCF5232 | MCF5233 |
| MCF5234 | MCF5235 | MCF5248 |
| MCF5249 | MCF5251 | MCF5253 |
| MCF5270 | MCF5271 | MCF5272 |
| MCF5274 | MCF5275 | MCF5280 |
| MCF5281 | MCF5282 | MCF53010 |
| MCF53011 | MCF53012 | MCF53013 |
| MCF53014 | MCF53015 | MCF53016 |
| MCF53017 | MCF5307 | MCF5327 |
| MCF5328 | MCF53281 | MCF5329 |
| MCF5307 | MCF5307 | MCF5307 |
| MCF5307 | MCF5307 | MCF5400 |
| MCF5407 | MCF5407E | MCF54410 |

| | | |
|---|---|---|
| MCF54415 | MCF54416 | MCF54417 |
| MCF54418 | MCF54450 | MCF54451 |
| MCF54452 | MCF54453 | MCF54454 |
| MCF54455 | MCF547x | MCF548x |
| MCFV1 | MCFV2 | MCFV3 |
| MCFV4 | MCFV4E | MCFV4M |

### Object Module Formats

| Code | Description |
|---|---|
| F | ColdFire ELF Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| N | No Floating Point |
| S | Software Floating Point |
| H | Hardware Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| psos | psos - Interface with pSOSystem. |
| vxworks55 | vxworks55 - Interface with VxWorks 5.5 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |

| Code | Description |
|---|---|
| rtp | rtp - Real Time Process for VxWorks 6.x |
| other | other - Enter text string when requested |

## 2.4. M*CORE Target Configuration Options

M*CORE target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| MCORE | MCORE200 | MCORE210 |
| MCORE210 | MCORE210 | MCORE210 |
| MCORE210 | MCORE210 | MCORE310 |
| MCORE330 | MCORE340 | |

### Object Module Formats

| Code | Description |
|---|---|
| E | M*CORE ELF ABI big-endian Object Format |
| L | M*CORE ELF ABI little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| F | Single Hardware, Double Software Floating Point |
| G | All Single Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| psos | psos - Interface with pSOSystem. See Release Notes |
| other | other - Enter text string |

## 2.5. MC68K Target Configuration Options

MC68K target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| CPU32 | CPU32+ | MC68000 |
| MC68008 | MC68010 | MC68020 |
| MC68040 | MC68060 | MC6830X |
| MC68322 | MC68349 | MC68356 |
| MC68360 | | |

### Object Module Formats

| Code | Description |
|---|---|
| F | MC68k ELF Object Format |
| E | MC68k COFF Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| N | No Floating Point |
| S | Software Floating Point |
| H | Hardware Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| psos | psos - Interface with pSOSystem. See Release Notes |
| other | other - Enter text string |

## 2.6. MCS Target Configuration Options

MCS target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| |
|---|
| MCS |

### Object Module Formats

| Code | Description |
|---|---|
| E | MCS ELF big endian |
| L | MCS ELF little endian |

### Floating Point Support

| Code | Description |
|---|---|
| N | No Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| simple | simple - Only character I/O |
| other | other - Enter text string when requested |

## 2.7. MIPS Target Configuration Options

MIPS target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| BCMSB1 | MIPS1 | MIPS16 |
| MIPS2 | MIPS3 | MIPS32 |
| MIPS32R2 | MIPS4 | MIPS64 |
| MIPS64GLRN | R3000 | R3041 |
| R3051 | R3052 | R3071 |
| R3081 | R3900 | R4000 |
| R4100 | R4200 | R4300 |
| R4600 | R4640 | R4650 |
| R4700 | R5000 | R5432 |
| R5464 | RM9K | |

### Object Module Formats

| Code | Description |
|---|---|
| E | MIPS ELF Object Format |
| F | MIPS No Small-Data ELF Object Format |
| L | MIPS ELF little-endian Object Format |
| M | MIPS No Small-Data ELF little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| psos | psos - Interface with pSOSystem. See Release Notes |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |

| Code | Description |
|---|---|
| rtp | rtp - Real Time Process for VxWorks 6.x |
| other | other - Enter text string |
| vxworks55 | vxworks55 - Interface with VxWorks 5.5 |

## 2.8. MIPS-IV Target Configuration Options

MIPS-IV target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| BCMSB1 | MIPS64 | MIPS64GLRN |
| R5432 | R5464 | RM9K |

### Object Module Formats

| Code | Description |
|---|---|
| S | MIPS ELF Object Format, N32 ABI |
| T | MIPS No Small-Data ELF Object Format, N32 ABI |
| U | MIPS ELF little-endian Object Format, N32 ABI |
| V | MIPS No Small-Data ELF little-endian Object Format, N32 ABI |
| W | MIPS ELF Object Format |
| X | MIPS No Small-Data ELF Object Format |
| Y | MIPS ELF little-endian Object Format |
| Z | MIPS No Small-Data ELF little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| other | other - Enter text string |
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| psos | psos - Interface with pSOSystem. |
| vxworks55 | vxworks55 - Interface with VxWorks 5.5 |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |

## 2.9. PAsemi Target Configuration Options

PAsemi target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| |
|---|
| PA6T |

### Object Module Formats

| Code | Description |
|---|---|
| E | PowerPC ELF EABI Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |
| V | Vector Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| psos | psos - Interface with pSOSystem. See Release Notes |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |

| Code | Description |
|---|---|
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| other | other - Enter text string |

## 2.10. Pentium Target Configuration Options

Pentium target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| |
|---|
| X86 |

### Object Module Formats

| Code | Description |
|---|---|
| L | X86 Elf little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |

| Code | Description |
|---|---|
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| other | other - Enter text string |

## 2.11. PowerPC Target Configuration Options

PowerPC target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

Note: For E200Z*N series, N means non-VLE mode.

| | | |
|---|---|---|
| PPC | PPC603 | PPC604 |
| PPC401 | PPC403 | PPC405 |
| PPC440 | PPC440GX | PPC440X5 |
| PPC460S | PPC464 | PPC464FP |
| PPC470S | PPC476 | PPC476FP |
| PPC505 | PPC509 | PPC534 |
| PPC535 | PPC553 | PPC555 |
| PPC561 | PPC563 | PPC565 |
| PPC566 | PPC740 | PPC745 |
| PPC750 | PPC750CL | PPC750CX |

| | | |
|---|---|---|
| PPC750CXe | PC750CXr | PPC750FL |
| PPC750FX | PPC750GL | PPC750GX |
| PPC755 | PPC801 | PPC821 |
| PPC823 | PPC823E | PPC850 |
| PPC852 | PPC852T | PPC853 |
| PPC853T | PPC855 | PPC855T |
| PPC857 | PPC857T | PPC857DSL |
| PPC859 | PPC859DSL | PPC859T |
| PPC860 | PPC862 | PPC866 |
| PPC870 | PPC875 | PPC880 |
| PPC885 | PPC970 | PPC970FX |
| PPC970MP | PPC5121 | PPC5121e |
| PPC5123 | PPC5125 | PPC7400 |
| PPC7410 | PPC7440 | PPC7441 |
| PPC7445 | PPC7447 | PPC7447A |
| PPC7448 | PPC7450 | PC7451 |
| PPC7455 | PPC7457 | PPC8240 |
| PPC8241 | PPC8245 | PPC8250 |
| PPC8255 | PPC8260 | PPC8264 |
| PPC8265 | PPC8266 | PPC8270 |
| PPC8275 | PPC8280 | PPC8306 |
| PPC8306S | PPC8308 | PPC8309 |
| PPC8313 | PPC8313 | PPC8313E |
| PPC8314 | PPC8314E | PPC8315 |
| PPC8315E | PPC8321 | PPC8321E |

| | | |
|---|---|---|
| PPC8323 | PPC8323E | PPC440GX |
| PPC8343 | PPC8343E | PPC8347 |
| MPC8347E | PPC8349 | PC8349E |
| PC8358 | PPC8358E | PPC8360 |
| PPC8360E | PPC8365 | PPC8377 |
| PPC8377EWLAN | PPC8378 | PPC8378E |
| PPC8379 | PC8379E | PCE500MC |
| PPCE500 | PPCE500V2 | PPC5500 |
| PPC5510 | PC5516Z1 | PPC5532 |
| PPC5533 | PPC5534 | PPC5553 |
| PPC5554 | PPC5561 | PPC5565 |
| PPC5566 | PPC5567 | PPC5632M |
| PPC5633M | PPC5634M | PPC5643 |
| PPC5644 | PPC5644B | PPC5645B |
| PPC5646B | PPC5645S | PPC5668G |
| PPC5674F | PPC8247 | PPC8248 |
| PPC8271 | PPC8272 | PPC8533 |
| MPC8533E | PPC8535 | MPC8535E |
| PPC8536 | PPC8536E | PPC8540 |
| PPC8541 | MPC8541E | PPC8543 |
| MPC8543E | PPC8544 | MPC8544E |
| PPC8545 | MPC8545E | PPC8547 |
| MPC8547E | PPC8548 | MPC8548E |
| PPC8555 | PPC8555E | PPC8560 |
| PPC8567 | PPC8568 | MPC8568E |

| | | |
|---|---|---|
| PPC8569 | MPC8569E | PPC8572 |
| MPC8572E | PPC8610 | PPC8640 |
| PPC8641 | PPC8641D | MGT5200 |
| PPC5200B | SPC563M54 | SPC563M60 |
| SPC563M64 | P1010 | P1014 |
| 1020 | P1011 | P1021 |
| P1012 | P1022 | P1013 |
| P1023 | P1017 | P2020 |
| P2040 | P3041 | P4040 |
| P4080 | P5010 | P5020 |
| PPCE200Z1N | PPCE200Z3N | PPCE200Z335N |
| PPCE200Z4N | PPCE200Z4DN | PPCE200Z6N |
| PPCE200Z7N | PPCE300 | PPCE6500 |

### Object Module Formats

| Code | Description |
|---|---|
| E | PowerPC ELF EABI Object Format |
| D | PowerPC COFF Object Format |
| F | PowerPC No Small-Data ELF EABI Object Format |
| L | PowerPC ELF EABI little-endian Object Format |
| M | PowerPC No Small-Data ELF EABI little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |

| Code | Description |
|---|---|
| S | Software Floating Point |
| F | Single Hardware, Double Software Floating Point |
| G | All Single Hardware Floating Point |
| V | Vector Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| psos | psos - Interface with pSOSystem. See Release Notes |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| rtp7 | rtp7 - Real Time Process for VxWorks 7 |
| other | other - Enter text string |
| vxworks55 | vxworks55 - Interface with VxWorks 5.5 |
| vxworks7 | vxworks7 - Interface with VxWorks 7 |

# 2.12. PowerPC Compressed Target Configuration Options

PowerPC Compressed target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| PPC533 | PPC536 | PPC555 |
| PPC560 | PPC562 | PPC564 |
| PPC566 | | |

### Object Module Formats

| Code | Description |
|---|---|
| C | PowerPC ELF EABI Compressed Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| other | other - Enter text string |

# 2.13. PowerPC VLE Target Configuration Options

PowerPC VLE target configuration options for target processors, object module formats, floating point support, and execution environments.

## Target Processors

Note: For E200Z*V series, V means VLE mode.

| | | |
|---|---|---|
| PPC5510 | PPC5516Z0 | PPC5516Z1 |
| PPC5533 | PPC5534 | PPC5561 |
| PPC5565 | PPC5566 | PC5567 |
| PC5601P | PPC5602B | PPC5602C |
| PPC5602P | PPC5602PE | PPC5602S |
| PPC5603B | PPC5603C | PPC5603P |
| PPC5603PE | PPC5604B | PPC5604C |
| PPC5604P | PPC5604PE | PPC5604S |
| PPC5606S | PPC5645S | PXD10 |
| PPC5632M | PPC5633M | PPC5634M |
| PPC5643 | PPC5644 | PXD20 |
| PXS20 | PPC5668G | PXN20 |
| PXN21 | PPC5640A | PPC5641A |
| PPC5642A | PPC5643A | PPC5644A |
| PPC5645A | PPC5646A | PPC5647A |
| PPC5648A | PPC5649A | PPC564xA |
| PPC5644B | PPC5645B | PPC5646B |
| PPC5644C | PPC5645C | PPC5646C |
| PPC5640L | PPC5641L | PPC5642L |
| PPC5643L | PPC5644L | PPC5645L |
| PPC5646L | PPC5647L | PPC5648L |
| PPC5649L | PPC564xL | PPC5640F |

| | | |
|---|---|---|
| PPC5641F | PPC5642F | PPC5643F |
| PPC5644F | PPC5645F | PPC5646F |
| PC5647F | PPC5648F | PPC5649F |
| PPC564xF | PPC5673F | PPC5674F |
| PPC5673K | PPC5674K | PPC5675K |
| PPC5676R | PXR40 | PXS30 |
| SPC560B40 | SPC560C40 | SPC560B44 |
| SPC560C44 | SPC560B50 | SPC560C50 |
| SPC560P44 | SPC560P50 | SPC560S50 |
| SPC560S60 | SPC563M54 | SPC563M60 |
| SPC563M64 | PPC5726L | PPC5742P |
| PPC5743P | PPC5744P (1) | PPC5744P (2) |
| PPC5744K (1) | PPC5744K (2) | PPC5746G |
| PPC5746M (1) | PPC5746M (2) | PPC5746R |
| PPC5747C | PPC5747G | PPC5748C |
| PPC5748G | PPC5775K | PPC5777C |
| PPC5777M (1) | PPC5777M (2) | SPC572L64 |
| SPC574K72 | SPC57EM80 | SPC58EG84 |
| SPC58NE84 | SPC58NN84 | |
| PPCVLE | PPCE200Z0V | PPCE200Z0HV |
| PPCE200Z1V | PPCE200Z3V | PPCE200Z335V |
| PPCE200Z4V | PPCE200Z4DV | PPCE200Z6V |
| PPCE200Z7V | PPCE200Z0HN2PV | PPCE200Z210N3V |
| PPCE200Z215N3V | PPCE200Z215AN3V137 | PPCE200Z225N3V |
| PPCE200Z225BN3V | PPCE200Z410N3V | PPCE200Z420N3V |

| | | |
|---|---|---|
| PPCE200Z4201N3V | PPCE200Z4204N3V | PPCE200Z425N3V |
| PPCE200Z425BN3V | PPCE200Z4251N3V | PPCE200Z4256N3V |
| PPCE200Z710N3V | PPCE200Z720N3V | PPCE200Z7260N3V |
| PPCE200Z759N3V | PPCE200Z760N3V | |

### Object Module Formats

| Code | Description |
|---|---|
| E | PowerPC ELF EABI Object Format |
| F | PowerPC No Small-Data ELF EABI Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| N | No Floating Point |
| S | Software Floating Point |
| F | Single Hardware, Double Software Floating Point |
| G | All Single Hardware Floating Point |
| H | Hardware Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| other | other - Enter text string when requested |

## 2.14. PPC e6500 Target Configuration Options (32-bit)

e6500 target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| |
|---|
| PPCE6500 |

### Object Module Formats

| Code | Description |
|---|---|
| E | PowerPC ELF EABI Object Format |
| F | PowerPC No Small-Data ELF EABI Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |
| V | Vector Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |

| Code | Description |
|---|---|
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| vxworks7 | vxworks7 - Interface with VxWorks 7 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| rtp7 | rtp7 - Real Time Process for VxWorks 7 |
| other | other - Enter text string |

## 2.15. PPC 64-bit Target Configuration Options

PPC 64-bit target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | |
|---|---|
| PPCLP64 | PPCE6500 |

### Object Module Formats

| Code | Description |
|---|---|
| F | PowerPC No Small-Data ELF EABI Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |
| V | Vector Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| vxworks7 | vxworks7 - Interface with VxWorks 7 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| rtp7 | rtp7 - Real Time Process for VxWorks 7 |
| other | other - Enter text string |

## 2.16. RH850 Target Configuration Options

Renesas target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| RH850 | V850 | V850E |
| V850E2 | V850E3 | RH850G4MH |
| RH850G3K | RH850G3KH | RH850G3M |
| RH850G3MH | | |

### Object Module Formats

| Code | Description |
|---|---|
| E | ELF little endian, 16-bit SDA |
| F | ELF little endian, 32-bit far addressing |
| G | ELF little endian, 23-bit SDA |
| L | ELF little endian, 23-bit absolute addressing |

### Floating Point Support

| Code | Description |
|---|---|
| F | Single Hardware, Double Software Floating Point |
| H | Hardware Floating Point inclusively Vector Mode |
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| other | other - Enter text string |

## 2.17. SH Target Configuration Options

SH target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| SH | SH1 | SH2 |
| SH2A | SH3 | SH4 |
| SH4A | | |

### Object Module Formats

| Code | Description |
|---|---|
| E | SH ELF ABI Object Format |
| L | SH ELF little-endian Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| N | No Floating Point |
| S | Software Floating Point |
| H | Hardware Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| psos | psos - Interface with pSOSystem. |
| vxworks55 | vxworks55 - Interface with VxWorks 5.5 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |

| Code | Description |
|---|---|
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| other | other - Enter text string when requested |

## 2.18. SPARC Target Configuration Options

SPARC target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | |
|---|---|
| SPARC | SPARClite |

### Object Module Formats

| Code | Description |
|---|---|
| E | SPARC ELF Object Format |
| F | SPARC No Small-Data ELF Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| H | Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| solaris | solaris - Run on Solaris (SPARC only, not SPARClite) |
| vxworks60 | vxworks60 - Interface with VxWorks 6.0 |
| vxworks61 | vxworks61 - Interface with VxWorks 6.1 |
| vxworks62 | vxworks62 - Interface with VxWorks 6.2 |
| vxworks63 | vxworks63 - Interface with VxWorks 6.3 |
| vxworks64 | vxworks64 - Interface with VxWorks 6.4 |
| vxworks65 | vxworks65 - Interface with VxWorks 6.5 |
| vxworks66 | vxworks66 - Interface with VxWorks 6.6 |
| rtp | rtp - Real Time Process for VxWorks 6.x |
| other | other - Enter text string |
| vxworks55 | vxworks55 - Interface with VxWorks 5.5 |

## 2.19. TriCore Target Configuration Options

TriCore target configuration options for target processors, object module formats, floating point support, and execution environments.

### Target Processors

| | | |
|---|---|---|
| TC | TC12 | TC13 |
| TC131 | TC11IB | TC1100 |
| TC1130 | TC1167 | TC1197 |
| TC1337 | TC1367 | TC1387 |

| | | |
|---|---|---|
| TC1724 | TC1728 | TC1736 |
| TC1765 | TC1766 | TC1767 |
| TC1775 | TC1782 | TC1784 |
| TC1796 | TC1797 | TC1798 |
| TC1910 | TC1912 | TC1920 |
| TC16 | TC161 | TC16P |
| TC16E | TC21xAstep16E | TC22xAstep16E |
| TC23xAstep16E | TC26x16P | TC26x16E |
| TC27xAstep16P | TC27xAstep16E | TC27xBstep16P |
| TC27xBstep16E | TC29x16P | TC29x16E |
| TC2Dx16P | TC2Dx16E | TC162P |
| TC39xAAstep162P | | |

### Object Module Formats

| Code | Description |
|---|---|
| L | TriCore Z-Data, No Small-Data ELF Object Format |
| M | TriCore No Small-Data, No Z-Data ELF Object Format |
| N | TriCore Small-Data, No Z-Data ELF Object Format |

### Floating Point Support

| Code | Description |
|---|---|
| F | Single Hardware, Double Software Floating Point |
| G | All Single Hardware Floating Point |
| N | No Floating Point |
| S | Software Floating Point |

### Execution Environments

| Code | Description |
|---|---|
| windiss | windiss - Instruction Set Simulator |
| tsim | iss - Infineon Instruction Set Simulator |
| cross | cross - Use Ram Disk for I/O |
| simple | simple - Only character I/O |
| other | other - Enter text string when requested |