Release 14.7 - xst P.20131013 (nt64)

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--> Parameter TMPDIR set to xst/projnav.tmp

Total REAL time to Xst completion: 0.00 secs

Total CPU time to Xst completion: 0.09 secs

--> Parameter xsthdpdir set to xst

Total REAL time to Xst completion: 0.00 secs

Total CPU time to Xst completion: 0.09 secs

--> Reading design: Bryant\_CSM\_4B.prj

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\* Synthesis Options Summary \*

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---- Source Parameters

Input File Name : "Bryant\_CSM\_4B.prj"

Input Format : mixed

Ignore Synthesis Constraint File : NO

---- Target Parameters

Output File Name : "Bryant\_CSM\_4B"

Output Format : NGC

Target Device : xc4vlx100-12-ff1148

---- Source Options

Top Module Name : Bryant\_CSM\_4B

Automatic FSM Extraction : YES

FSM Encoding Algorithm : Auto

Safe Implementation : No

FSM Style : LUT

RAM Extraction : Yes

RAM Style : Auto

ROM Extraction : Yes

Mux Style : Auto

Decoder Extraction : YES

Priority Encoder Extraction : Yes

Shift Register Extraction : YES

Logical Shifter Extraction : YES

XOR Collapsing : YES

ROM Style : Auto

Mux Extraction : Yes

Resource Sharing : YES

Asynchronous To Synchronous : NO

Use DSP Block : Auto

Automatic Register Balancing : No

---- Target Options

Add IO Buffers : YES

Global Maximum Fanout : 100000

Add Generic Clock Buffer(BUFG) : 32

Number of Regional Clock Buffers : 48

Register Duplication : YES

Slice Packing : YES

Optimize Instantiated Primitives : NO

Use Clock Enable : Auto

Use Synchronous Set : Auto

Use Synchronous Reset : Auto

Pack IO Registers into IOBs : Auto

Equivalent register Removal : YES

---- General Options

Optimization Goal : Speed

Optimization Effort : 1

Power Reduction : NO

Keep Hierarchy : No

Netlist Hierarchy : As\_Optimized

RTL Output : Yes

Global Optimization : AllClockNets

Read Cores : YES

Write Timing Constraints : NO

Cross Clock Analysis : NO

Hierarchy Separator : /

Bus Delimiter : <>

Case Specifier : Maintain

Slice Utilization Ratio : 100

BRAM Utilization Ratio : 100

DSP48 Utilization Ratio : 100

Verilog 2001 : YES

Auto BRAM Packing : NO

Slice Utilization Ratio Delta : 5

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\* HDL Compilation \*

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WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_GenReg is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_GenReg/reg16bit\_arch is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_GenRegLast is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_GenRegLast/reg16bit\_arch is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice\_2B is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice\_2B/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice\_2B is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice\_2B/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

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WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice\_6B is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice\_6B/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice\_6B is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice\_6B/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice\_8B is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMSlice\_8B/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice\_8B is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:HDLParsers:3607 - Unit work/Bryant\_CSMLastSlice\_8B/behv is now defined in a different file. It was defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_Components.vhdl", and is now defined in "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Compiling vhdl file "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl" in Library work.

Architecture behv of Entity bryant\_csmslice is up to date.

Architecture behv of Entity bryant\_csmlastslice is up to date.

Architecture reg16bit\_arch of Entity bryant\_genreg is up to date.

Architecture reg16bit\_arch of Entity bryant\_genreglast is up to date.

Architecture behv of Entity bryant\_csmslice\_2b is up to date.

Architecture behv of Entity bryant\_csmlastslice\_2b is up to date.

Architecture behv of Entity bryant\_csmslice\_4b is up to date.

Architecture behv of Entity bryant\_csmlastslice\_4b is up to date.

Architecture behv of Entity bryant\_csmslice\_6b is up to date.

Architecture behv of Entity bryant\_csmlastslice\_6b is up to date.

Architecture behv of Entity bryant\_csmslice\_8b is up to date.

Architecture behv of Entity bryant\_csmlastslice\_8b is up to date.

Compiling vhdl file "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_4B.vhdl" in Library work.

Entity <bryant\_csm\_4b> compiled.

Entity <bryant\_csm\_4b> (Architecture <csm\_4b>) compiled.

=========================================================================

\* Design Hierarchy Analysis \*

=========================================================================

Analyzing hierarchy for entity <Bryant\_CSM\_4B> in library <work> (architecture <csm\_4b>) with generics.

BITS2 = 2

BITS4 = 4

BITS6 = 6

BITS8 = 8

W = 24

Analyzing hierarchy for entity <Bryant\_CSMSlice\_4B> in library <work> (architecture <behv>) with generics.

BBITS = 4

W = 24

Analyzing hierarchy for entity <Bryant\_GenReg> in library <work> (architecture <reg16bit\_arch>) with generics.

bbits = 8

w = 28

Analyzing hierarchy for entity <Bryant\_CSMSlice\_4B> in library <work> (architecture <behv>) with generics.

BBITS = 4

W = 28

Analyzing hierarchy for entity <Bryant\_GenReg> in library <work> (architecture <reg16bit\_arch>) with generics.

bbits = 16

w = 32

Analyzing hierarchy for entity <Bryant\_CSMSlice\_4B> in library <work> (architecture <behv>) with generics.

BBITS = 4

W = 32

Analyzing hierarchy for entity <Bryant\_GenReg> in library <work> (architecture <reg16bit\_arch>) with generics.

bbits = 24

w = 36

Analyzing hierarchy for entity <Bryant\_CSMSlice\_4B> in library <work> (architecture <behv>) with generics.

BBITS = 4

W = 36

Analyzing hierarchy for entity <Bryant\_GenReg> in library <work> (architecture <reg16bit\_arch>) with generics.

bbits = 32

w = 40

Analyzing hierarchy for entity <Bryant\_CSMSlice\_4B> in library <work> (architecture <behv>) with generics.

BBITS = 4

W = 40

Analyzing hierarchy for entity <Bryant\_GenReg> in library <work> (architecture <reg16bit\_arch>) with generics.

bbits = 40

w = 44

Analyzing hierarchy for entity <Bryant\_CSMLastSlice\_4B> in library <work> (architecture <behv>) with generics.

BBITS = 4

W = 44

Analyzing hierarchy for entity <Bryant\_GenRegLast> in library <work> (architecture <reg16bit\_arch>) with generics.

w = 48

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 24

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 25

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 26

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 27

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 28

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 29

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 30

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 31

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 32

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 33

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 34

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 35

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 36

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 37

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 38

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 39

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 40

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 41

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 42

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 43

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 44

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 45

Analyzing hierarchy for entity <Bryant\_CSMSlice> in library <work> (architecture <behv>) with generics.

W = 46

Analyzing hierarchy for entity <Bryant\_CSMLastSlice> in library <work> (architecture <behv>) with generics.

W = 47

=========================================================================

\* HDL Analysis \*

=========================================================================

Analyzing generic Entity <Bryant\_CSM\_4B> in library <work> (Architecture <csm\_4b>).

BITS2 = 2

BITS4 = 4

BITS6 = 6

BITS8 = 8

W = 24

Entity <Bryant\_CSM\_4B> analyzed. Unit <Bryant\_CSM\_4B> generated.

Analyzing generic Entity <Bryant\_CSMSlice\_4B.1> in library <work> (Architecture <behv>).

BBITS = 4

W = 24

Entity <Bryant\_CSMSlice\_4B.1> analyzed. Unit <Bryant\_CSMSlice\_4B.1> generated.

Analyzing generic Entity <Bryant\_CSMSlice.1> in library <work> (Architecture <behv>).

W = 24

Entity <Bryant\_CSMSlice.1> analyzed. Unit <Bryant\_CSMSlice.1> generated.

Analyzing generic Entity <Bryant\_CSMSlice.2> in library <work> (Architecture <behv>).

W = 25

Entity <Bryant\_CSMSlice.2> analyzed. Unit <Bryant\_CSMSlice.2> generated.

Analyzing generic Entity <Bryant\_CSMSlice.3> in library <work> (Architecture <behv>).

W = 26

Entity <Bryant\_CSMSlice.3> analyzed. Unit <Bryant\_CSMSlice.3> generated.

Analyzing generic Entity <Bryant\_CSMSlice.4> in library <work> (Architecture <behv>).

W = 27

Entity <Bryant\_CSMSlice.4> analyzed. Unit <Bryant\_CSMSlice.4> generated.

Analyzing generic Entity <Bryant\_GenReg.1> in library <work> (Architecture <reg16bit\_arch>).

bbits = 8

w = 28

Entity <Bryant\_GenReg.1> analyzed. Unit <Bryant\_GenReg.1> generated.

Analyzing generic Entity <Bryant\_CSMSlice\_4B.2> in library <work> (Architecture <behv>).

BBITS = 4

W = 28

Entity <Bryant\_CSMSlice\_4B.2> analyzed. Unit <Bryant\_CSMSlice\_4B.2> generated.

Analyzing generic Entity <Bryant\_CSMSlice.5> in library <work> (Architecture <behv>).

W = 28

Entity <Bryant\_CSMSlice.5> analyzed. Unit <Bryant\_CSMSlice.5> generated.

Analyzing generic Entity <Bryant\_CSMSlice.6> in library <work> (Architecture <behv>).

W = 29

Entity <Bryant\_CSMSlice.6> analyzed. Unit <Bryant\_CSMSlice.6> generated.

Analyzing generic Entity <Bryant\_CSMSlice.7> in library <work> (Architecture <behv>).

W = 30

Entity <Bryant\_CSMSlice.7> analyzed. Unit <Bryant\_CSMSlice.7> generated.

Analyzing generic Entity <Bryant\_CSMSlice.8> in library <work> (Architecture <behv>).

W = 31

Entity <Bryant\_CSMSlice.8> analyzed. Unit <Bryant\_CSMSlice.8> generated.

Analyzing generic Entity <Bryant\_GenReg.2> in library <work> (Architecture <reg16bit\_arch>).

bbits = 16

w = 32

Entity <Bryant\_GenReg.2> analyzed. Unit <Bryant\_GenReg.2> generated.

Analyzing generic Entity <Bryant\_CSMSlice\_4B.3> in library <work> (Architecture <behv>).

BBITS = 4

W = 32

Entity <Bryant\_CSMSlice\_4B.3> analyzed. Unit <Bryant\_CSMSlice\_4B.3> generated.

Analyzing generic Entity <Bryant\_CSMSlice.9> in library <work> (Architecture <behv>).

W = 32

Entity <Bryant\_CSMSlice.9> analyzed. Unit <Bryant\_CSMSlice.9> generated.

Analyzing generic Entity <Bryant\_CSMSlice.10> in library <work> (Architecture <behv>).

W = 33

Entity <Bryant\_CSMSlice.10> analyzed. Unit <Bryant\_CSMSlice.10> generated.

Analyzing generic Entity <Bryant\_CSMSlice.11> in library <work> (Architecture <behv>).

W = 34

Entity <Bryant\_CSMSlice.11> analyzed. Unit <Bryant\_CSMSlice.11> generated.

Analyzing generic Entity <Bryant\_CSMSlice.12> in library <work> (Architecture <behv>).

W = 35

Entity <Bryant\_CSMSlice.12> analyzed. Unit <Bryant\_CSMSlice.12> generated.

Analyzing generic Entity <Bryant\_GenReg.3> in library <work> (Architecture <reg16bit\_arch>).

bbits = 24

w = 36

Entity <Bryant\_GenReg.3> analyzed. Unit <Bryant\_GenReg.3> generated.

Analyzing generic Entity <Bryant\_CSMSlice\_4B.4> in library <work> (Architecture <behv>).

BBITS = 4

W = 36

Entity <Bryant\_CSMSlice\_4B.4> analyzed. Unit <Bryant\_CSMSlice\_4B.4> generated.

Analyzing generic Entity <Bryant\_CSMSlice.13> in library <work> (Architecture <behv>).

W = 36

Entity <Bryant\_CSMSlice.13> analyzed. Unit <Bryant\_CSMSlice.13> generated.

Analyzing generic Entity <Bryant\_CSMSlice.14> in library <work> (Architecture <behv>).

W = 37

Entity <Bryant\_CSMSlice.14> analyzed. Unit <Bryant\_CSMSlice.14> generated.

Analyzing generic Entity <Bryant\_CSMSlice.15> in library <work> (Architecture <behv>).

W = 38

Entity <Bryant\_CSMSlice.15> analyzed. Unit <Bryant\_CSMSlice.15> generated.

Analyzing generic Entity <Bryant\_CSMSlice.16> in library <work> (Architecture <behv>).

W = 39

Entity <Bryant\_CSMSlice.16> analyzed. Unit <Bryant\_CSMSlice.16> generated.

Analyzing generic Entity <Bryant\_GenReg.4> in library <work> (Architecture <reg16bit\_arch>).

bbits = 32

w = 40

Entity <Bryant\_GenReg.4> analyzed. Unit <Bryant\_GenReg.4> generated.

Analyzing generic Entity <Bryant\_CSMSlice\_4B.5> in library <work> (Architecture <behv>).

BBITS = 4

W = 40

Entity <Bryant\_CSMSlice\_4B.5> analyzed. Unit <Bryant\_CSMSlice\_4B.5> generated.

Analyzing generic Entity <Bryant\_CSMSlice.17> in library <work> (Architecture <behv>).

W = 40

Entity <Bryant\_CSMSlice.17> analyzed. Unit <Bryant\_CSMSlice.17> generated.

Analyzing generic Entity <Bryant\_CSMSlice.18> in library <work> (Architecture <behv>).

W = 41

Entity <Bryant\_CSMSlice.18> analyzed. Unit <Bryant\_CSMSlice.18> generated.

Analyzing generic Entity <Bryant\_CSMSlice.19> in library <work> (Architecture <behv>).

W = 42

Entity <Bryant\_CSMSlice.19> analyzed. Unit <Bryant\_CSMSlice.19> generated.

Analyzing generic Entity <Bryant\_CSMSlice.20> in library <work> (Architecture <behv>).

W = 43

Entity <Bryant\_CSMSlice.20> analyzed. Unit <Bryant\_CSMSlice.20> generated.

Analyzing generic Entity <Bryant\_GenReg.5> in library <work> (Architecture <reg16bit\_arch>).

bbits = 40

w = 44

Entity <Bryant\_GenReg.5> analyzed. Unit <Bryant\_GenReg.5> generated.

Analyzing generic Entity <Bryant\_CSMLastSlice\_4B> in library <work> (Architecture <behv>).

BBITS = 4

W = 44

Entity <Bryant\_CSMLastSlice\_4B> analyzed. Unit <Bryant\_CSMLastSlice\_4B> generated.

Analyzing generic Entity <Bryant\_CSMSlice.21> in library <work> (Architecture <behv>).

W = 44

Entity <Bryant\_CSMSlice.21> analyzed. Unit <Bryant\_CSMSlice.21> generated.

Analyzing generic Entity <Bryant\_CSMSlice.22> in library <work> (Architecture <behv>).

W = 45

Entity <Bryant\_CSMSlice.22> analyzed. Unit <Bryant\_CSMSlice.22> generated.

Analyzing generic Entity <Bryant\_CSMSlice.23> in library <work> (Architecture <behv>).

W = 46

Entity <Bryant\_CSMSlice.23> analyzed. Unit <Bryant\_CSMSlice.23> generated.

Analyzing generic Entity <Bryant\_CSMLastSlice> in library <work> (Architecture <behv>).

W = 47

Entity <Bryant\_CSMLastSlice> analyzed. Unit <Bryant\_CSMLastSlice> generated.

Analyzing generic Entity <Bryant\_GenRegLast> in library <work> (Architecture <reg16bit\_arch>).

w = 48

Entity <Bryant\_GenRegLast> analyzed. Unit <Bryant\_GenRegLast> generated.

=========================================================================

\* HDL Synthesis \*

=========================================================================

Performing bidirectional port resolution...

Synthesizing Unit <Bryant\_GenReg\_1>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 28-bit register for signal <sAout>.

Found 20-bit register for signal <sBout>.

Found 28-bit register for signal <scarryout>.

Found 28-bit register for signal <sSumout>.

Summary:

inferred 104 D-type flip-flop(s).

Unit <Bryant\_GenReg\_1> synthesized.

Synthesizing Unit <Bryant\_GenReg\_2>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 32-bit register for signal <sAout>.

Found 16-bit register for signal <sBout>.

Found 32-bit register for signal <scarryout>.

Found 32-bit register for signal <sSumout>.

Summary:

inferred 112 D-type flip-flop(s).

Unit <Bryant\_GenReg\_2> synthesized.

Synthesizing Unit <Bryant\_GenReg\_3>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 36-bit register for signal <sAout>.

Found 12-bit register for signal <sBout>.

Found 36-bit register for signal <scarryout>.

Found 36-bit register for signal <sSumout>.

Summary:

inferred 120 D-type flip-flop(s).

Unit <Bryant\_GenReg\_3> synthesized.

Synthesizing Unit <Bryant\_GenReg\_4>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 40-bit register for signal <sAout>.

Found 8-bit register for signal <sBout>.

Found 40-bit register for signal <scarryout>.

Found 40-bit register for signal <sSumout>.

Summary:

inferred 128 D-type flip-flop(s).

Unit <Bryant\_GenReg\_4> synthesized.

Synthesizing Unit <Bryant\_GenReg\_5>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 44-bit register for signal <sAout>.

Found 4-bit register for signal <sBout>.

Found 44-bit register for signal <scarryout>.

Found 44-bit register for signal <sSumout>.

Summary:

inferred 136 D-type flip-flop(s).

Unit <Bryant\_GenReg\_5> synthesized.

Synthesizing Unit <Bryant\_GenRegLast>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 48-bit register for signal <scarryout>.

Found 48-bit register for signal <sSumout>.

Summary:

inferred 96 D-type flip-flop(s).

Unit <Bryant\_GenRegLast> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_1>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 24-bit xor3 for signal <SumOut<23:0>>.

Summary:

inferred 24 Xor(s).

Unit <Bryant\_CSMSlice\_1> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_2>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 25-bit xor3 for signal <SumOut<24:0>>.

Summary:

inferred 25 Xor(s).

Unit <Bryant\_CSMSlice\_2> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_3>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 26-bit xor3 for signal <SumOut<25:0>>.

Summary:

inferred 26 Xor(s).

Unit <Bryant\_CSMSlice\_3> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_4>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 27-bit xor3 for signal <SumOut<26:0>>.

Summary:

inferred 27 Xor(s).

Unit <Bryant\_CSMSlice\_4> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_5>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 28-bit xor3 for signal <SumOut<27:0>>.

Summary:

inferred 28 Xor(s).

Unit <Bryant\_CSMSlice\_5> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_6>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 29-bit xor3 for signal <SumOut<28:0>>.

Summary:

inferred 29 Xor(s).

Unit <Bryant\_CSMSlice\_6> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_7>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 30-bit xor3 for signal <SumOut<29:0>>.

Summary:

inferred 30 Xor(s).

Unit <Bryant\_CSMSlice\_7> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_8>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 31-bit xor3 for signal <SumOut<30:0>>.

Summary:

inferred 31 Xor(s).

Unit <Bryant\_CSMSlice\_8> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_9>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 32-bit xor3 for signal <SumOut<31:0>>.

Summary:

inferred 32 Xor(s).

Unit <Bryant\_CSMSlice\_9> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_10>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 33-bit xor3 for signal <SumOut<32:0>>.

Summary:

inferred 33 Xor(s).

Unit <Bryant\_CSMSlice\_10> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_11>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 34-bit xor3 for signal <SumOut<33:0>>.

Summary:

inferred 34 Xor(s).

Unit <Bryant\_CSMSlice\_11> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_12>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 35-bit xor3 for signal <SumOut<34:0>>.

Summary:

inferred 35 Xor(s).

Unit <Bryant\_CSMSlice\_12> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_13>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 36-bit xor3 for signal <SumOut<35:0>>.

Summary:

inferred 36 Xor(s).

Unit <Bryant\_CSMSlice\_13> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_14>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 37-bit xor3 for signal <SumOut<36:0>>.

Summary:

inferred 37 Xor(s).

Unit <Bryant\_CSMSlice\_14> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_15>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 38-bit xor3 for signal <SumOut<37:0>>.

Summary:

inferred 38 Xor(s).

Unit <Bryant\_CSMSlice\_15> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_16>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 39-bit xor3 for signal <SumOut<38:0>>.

Summary:

inferred 39 Xor(s).

Unit <Bryant\_CSMSlice\_16> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_17>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 40-bit xor3 for signal <SumOut<39:0>>.

Summary:

inferred 40 Xor(s).

Unit <Bryant\_CSMSlice\_17> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_18>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 41-bit xor3 for signal <SumOut<40:0>>.

Summary:

inferred 41 Xor(s).

Unit <Bryant\_CSMSlice\_18> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_19>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 42-bit xor3 for signal <SumOut<41:0>>.

Summary:

inferred 42 Xor(s).

Unit <Bryant\_CSMSlice\_19> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_20>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 43-bit xor3 for signal <SumOut<42:0>>.

Summary:

inferred 43 Xor(s).

Unit <Bryant\_CSMSlice\_20> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_21>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 44-bit xor3 for signal <SumOut<43:0>>.

Summary:

inferred 44 Xor(s).

Unit <Bryant\_CSMSlice\_21> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_22>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 45-bit xor3 for signal <SumOut<44:0>>.

Summary:

inferred 45 Xor(s).

Unit <Bryant\_CSMSlice\_22> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_23>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 46-bit xor3 for signal <SumOut<45:0>>.

Summary:

inferred 46 Xor(s).

Unit <Bryant\_CSMSlice\_23> synthesized.

Synthesizing Unit <Bryant\_CSMLastSlice>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Found 47-bit xor3 for signal <SumOut<46:0>>.

Summary:

inferred 47 Xor(s).

Unit <Bryant\_CSMLastSlice> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_4B\_1>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Unit <Bryant\_CSMSlice\_4B\_1> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_4B\_2>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Unit <Bryant\_CSMSlice\_4B\_2> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_4B\_3>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Unit <Bryant\_CSMSlice\_4B\_3> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_4B\_4>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Unit <Bryant\_CSMSlice\_4B\_4> synthesized.

Synthesizing Unit <Bryant\_CSMSlice\_4B\_5>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

Unit <Bryant\_CSMSlice\_4B\_5> synthesized.

Synthesizing Unit <Bryant\_CSMLastSlice\_4B>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSMSynthesis/Bryant\_CSM\_Components.vhdl".

WARNING:Xst:1780 - Signal <sAout4> is never used or assigned. This unconnected signal will be trimmed during the optimization process.

Unit <Bryant\_CSMLastSlice\_4B> synthesized.

Synthesizing Unit <Bryant\_CSM\_4B>.

Related source file is "C:/Users/Student/Desktop/BRYANT\_CSM/Bryant\_CSM\_4B.vhdl".

WARNING:Xst:653 - Signal <sSumOut0> is used but never assigned. This sourceless signal will be automatically connected to value 000000000000000000000000.

WARNING:Xst:653 - Signal <sCarryIn> is used but never assigned. This sourceless signal will be automatically connected to value 000000000000000000000000.

Found 48-bit adder for signal <SumOut>.

Summary:

inferred 1 Adder/Subtractor(s).

Unit <Bryant\_CSM\_4B> synthesized.

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HDL Synthesis Report

Macro Statistics

# Adders/Subtractors : 1

48-bit adder : 1

# Registers : 22

12-bit register : 1

16-bit register : 1

20-bit register : 1

28-bit register : 3

32-bit register : 3

36-bit register : 3

4-bit register : 1

40-bit register : 3

44-bit register : 3

48-bit register : 2

8-bit register : 1

# Xors : 852

1-bit xor3 : 852

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\* Advanced HDL Synthesis \*

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WARNING:Xst:1710 - FF/Latch <sAout\_10> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_11> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_12> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_13> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_14> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_15> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_16> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_17> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_18> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_19> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sSumout\_43> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_8> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_9> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_10> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_11> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_12> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_13> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_14> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_15> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_39> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_8> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_9> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_8> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_9> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_10> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_11> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_12> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_13> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_14> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_15> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_16> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_17> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_18> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_19> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_20> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_21> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_22> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_23> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_47> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_8> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_9> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_10> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_11> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_12> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_13> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_14> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_15> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_16> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_17> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_18> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_19> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_43> (without init value) has a constant value of 0 in block <InstBryant\_GenReg5>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sSumout\_47> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg6>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_31> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_8> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_9> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_10> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sSumout\_27> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_27> (without init value) has a constant value of 0 in block <InstBryant\_GenReg1>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sSumout\_31> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg2>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_8> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_9> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_10> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_11> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_12> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_13> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_14> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_15> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sSumout\_39> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_11> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sSumout\_35> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_5> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_6> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_7> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_8> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_9> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_10> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_11> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <scarryout\_35> (without init value) has a constant value of 0 in block <InstBryant\_GenReg3>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_0> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_1> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_2> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_3> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1710 - FF/Latch <sAout\_4> (without init value) has a constant value of 0 in block <InstBryant\_GenReg4>. This FF/Latch will be trimmed during the optimization process.

=========================================================================

Advanced HDL Synthesis Report

Macro Statistics

# Adders/Subtractors : 1

48-bit adder : 1

# Registers : 696

Flip-Flops : 696

# Xors : 852

1-bit xor3 : 852

=========================================================================

=========================================================================

\* Low Level Synthesis \*

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Optimizing unit <Bryant\_CSM\_4B> ...

Optimizing unit <Bryant\_GenReg\_1> ...

Optimizing unit <Bryant\_GenReg\_2> ...

Optimizing unit <Bryant\_GenReg\_3> ...

Optimizing unit <Bryant\_GenReg\_4> ...

Optimizing unit <Bryant\_GenReg\_5> ...

Optimizing unit <Bryant\_GenRegLast> ...

Optimizing unit <Bryant\_CSMSlice\_8> ...

Optimizing unit <Bryant\_CSMSlice\_9> ...

Optimizing unit <Bryant\_CSMSlice\_10> ...

Optimizing unit <Bryant\_CSMSlice\_11> ...

Optimizing unit <Bryant\_CSMSlice\_12> ...

Optimizing unit <Bryant\_CSMSlice\_13> ...

Optimizing unit <Bryant\_CSMSlice\_14> ...

Optimizing unit <Bryant\_CSMSlice\_15> ...

Optimizing unit <Bryant\_CSMSlice\_16> ...

Optimizing unit <Bryant\_CSMSlice\_17> ...

Optimizing unit <Bryant\_CSMSlice\_18> ...

Optimizing unit <Bryant\_CSMSlice\_19> ...

Optimizing unit <Bryant\_CSMSlice\_20> ...

Optimizing unit <Bryant\_CSMSlice\_21> ...

Optimizing unit <Bryant\_CSMSlice\_22> ...

Optimizing unit <Bryant\_CSMSlice\_23> ...

Optimizing unit <Bryant\_CSMLastSlice> ...

WARNING:Xst:1710 - FF/Latch <InstBryant\_GenReg5/scarryout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_8> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_9> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_10> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_11> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_12> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_13> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_14> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_15> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_16> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_17> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_18> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_19> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_43> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sSumout\_39> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/sSumout\_47> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_8> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_9> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_10> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_11> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_12> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_13> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_14> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_15> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_16> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_17> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_18> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_19> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_20> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_21> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_22> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_23> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg6/scarryout\_47> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sSumout\_43> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/scarryout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sSumout\_31> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_35> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_11> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_10> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_9> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_8> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/scarryout\_27> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/scarryout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/scarryout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/scarryout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/scarryout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/sSumout\_27> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/sAout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/sAout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/sAout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg1/sAout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_31> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/scarryout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_8> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_9> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_10> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_11> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_12> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_13> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_14> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_15> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/scarryout\_39> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_1> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_2> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_3> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/scarryout\_0> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sSumout\_35> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg2/sAout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_4> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_5> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_6> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_7> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_8> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_9> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_11> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_10> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_9> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_8> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_11> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_10> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_9> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_8> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_10> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg3/sAout\_11> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_13> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_12> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_14> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_15> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_15> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_14> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_13> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg4/sAout\_12> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_16> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_17> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_19> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

WARNING:Xst:1895 - Due to other FF/Latch trimming, FF/Latch <InstBryant\_GenReg5/sAout\_18> (without init value) has a constant value of 0 in block <Bryant\_CSM\_4B>. This FF/Latch will be trimmed during the optimization process.

Mapping all equations...

Building and optimizing final netlist ...

Found area constraint ratio of 100 (+ 5) on block Bryant\_CSM\_4B, actual ratio is 1.

FlipFlop InstBryant\_GenReg1/sBout\_0 has been replicated 2 time(s)

INFO:Xst:1843 - HDL ADVISOR - FlipFlop InstBryant\_GenReg1/sBout\_0 connected to a primary input has been replicated

FlipFlop InstBryant\_GenReg2/sBout\_0 has been replicated 2 time(s)

FlipFlop InstBryant\_GenReg3/sBout\_0 has been replicated 2 time(s)

FlipFlop InstBryant\_GenReg4/sBout\_0 has been replicated 2 time(s)

FlipFlop InstBryant\_GenReg5/sBout\_0 has been replicated 2 time(s)

Final Macro Processing ...

Processing Unit <Bryant\_CSM\_4B> :

Found 4-bit shift register for signal <InstBryant\_GenReg4/sBout\_4>.

Found 4-bit shift register for signal <InstBryant\_GenReg4/sBout\_3>.

Found 4-bit shift register for signal <InstBryant\_GenReg4/sBout\_2>.

Found 4-bit shift register for signal <InstBryant\_GenReg4/sBout\_1>.

Found 5-bit shift register for signal <InstBryant\_GenReg5/sBout\_3>.

Found 5-bit shift register for signal <InstBryant\_GenReg5/sBout\_2>.

Found 5-bit shift register for signal <InstBryant\_GenReg5/sBout\_1>.

Found 4-bit shift register for signal <InstBryant\_GenReg6/sSumout\_7>.

Found 4-bit shift register for signal <InstBryant\_GenReg6/sSumout\_6>.

Found 4-bit shift register for signal <InstBryant\_GenReg6/sSumout\_5>.

Found 4-bit shift register for signal <InstBryant\_GenReg6/sSumout\_4>.

Found 5-bit shift register for signal <InstBryant\_GenReg6/sSumout\_3>.

Found 5-bit shift register for signal <InstBryant\_GenReg6/sSumout\_2>.

Found 5-bit shift register for signal <InstBryant\_GenReg6/sSumout\_1>.

Found 5-bit shift register for signal <InstBryant\_GenReg6/sSumout\_0>.

Unit <Bryant\_CSM\_4B> processed.

=========================================================================

Final Register Report

Macro Statistics

# Registers : 483

Flip-Flops : 483

# Shift Registers : 15

4-bit shift register : 8

5-bit shift register : 7

=========================================================================

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\* Partition Report \*

=========================================================================

Partition Implementation Status

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No Partitions were found in this design.

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=========================================================================

\* Final Report \*

=========================================================================

Final Results

RTL Top Level Output File Name : Bryant\_CSM\_4B.ngr

Top Level Output File Name : Bryant\_CSM\_4B

Output Format : NGC

Optimization Goal : Speed

Keep Hierarchy : No

Design Statistics

# IOs : 99

Cell Usage :

# BELS : 1266

# GND : 1

# LUT1 : 24

# LUT2 : 52

# LUT2\_D : 10

# LUT3 : 10

# LUT4 : 669

# LUT4\_D : 394

# LUT4\_L : 5

# MUXCY : 47

# MUXF5 : 5

# VCC : 1

# XORCY : 48

# FlipFlops/Latches : 517

# FDE : 15

# FDRE : 502

# Shift Registers : 15

# SRL16E : 15

# Clock Buffers : 1

# BUFGP : 1

# IO Buffers : 98

# IBUF : 50

# OBUF : 48

=========================================================================

Device utilization summary:

---------------------------

Selected Device : 4vlx100ff1148-12

Number of Slices: 629 out of 49152 1%

Number of Slice Flip Flops: 517 out of 98304 0%

Number of 4 input LUTs: 1179 out of 98304 1%

Number used as logic: 1164

Number used as Shift registers: 15

Number of IOs: 99

Number of bonded IOBs: 99 out of 768 12%

Number of GCLKs: 1 out of 32 3%

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Partition Resource Summary:

---------------------------

No Partitions were found in this design.

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TIMING REPORT

NOTE: THESE TIMING NUMBERS ARE ONLY A SYNTHESIS ESTIMATE.

FOR ACCURATE TIMING INFORMATION PLEASE REFER TO THE TRACE REPORT

GENERATED AFTER PLACE-and-ROUTE.

Clock Information:

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-----------------------------------+------------------------+-------+

Clock Signal | Clock buffer(FF name) | Load |

-----------------------------------+------------------------+-------+

clk | BUFGP | 532 |

-----------------------------------+------------------------+-------+

Asynchronous Control Signals Information:

----------------------------------------

No asynchronous control signals found in this design

Timing Summary:

---------------

Speed Grade: -12

Minimum period: 2.968ns (Maximum Frequency: 336.979MHz)

Minimum input arrival time before clock: 3.636ns

Maximum output required time after clock: 6.443ns

Maximum combinational path delay: No path found

Timing Detail:

--------------

All values displayed in nanoseconds (ns)

=========================================================================

Timing constraint: Default period analysis for Clock 'clk'

Clock period: 2.968ns (frequency: 336.979MHz)

Total number of paths / destination ports: 10565 / 435

-------------------------------------------------------------------------

Delay: 2.968ns (Levels of Logic = 4)

Source: InstBryant\_GenReg1/sBout\_0\_2 (FF)

Destination: InstBryant\_GenReg2/sSumout\_9 (FF)

Source Clock: clk rising

Destination Clock: clk rising

Data Path: InstBryant\_GenReg1/sBout\_0\_2 to InstBryant\_GenReg2/sSumout\_9

Gate Net

Cell:in->out fanout Delay Delay Logical Name (Net Name)

---------------------------------------- ------------

FDRE:C->Q 31 0.272 0.805 InstBryant\_GenReg1/sBout\_0\_2 (InstBryant\_GenReg1/sBout\_0\_2)

LUT4:I3->O 2 0.147 0.401 InstBryant\_CSMSlice\_4B2/InstBryant\_CSMSlice1/Mxor\_SumOut<9>\_xo<0>1 (InstBryant\_CSMSlice\_4B2/s1<9>)

LUT4:I3->O 2 0.147 0.449 InstBryant\_CSMSlice\_4B2/InstBryant\_CSMSlice2/Mxor\_SumOut<9>\_xo<0>1 (InstBryant\_CSMSlice\_4B2/s2<9>)

LUT4\_D:I2->O 1 0.147 0.436 InstBryant\_CSMSlice\_4B2/InstBryant\_CSMSlice3/Mxor\_SumOut<9>\_xo<0>1 (InstBryant\_CSMSlice\_4B2/s3<9>)

LUT4:I2->O 1 0.147 0.000 InstBryant\_CSMSlice\_4B2/InstBryant\_CSMSlice4/Mxor\_SumOut<9>\_xo<0>1 (sSumOut2<9>)

FDRE:D 0.017 InstBryant\_GenReg2/sSumout\_9

----------------------------------------

Total 2.968ns (0.877ns logic, 2.091ns route)

(29.6% logic, 70.4% route)

=========================================================================

Timing constraint: Default OFFSET IN BEFORE for Clock 'clk'

Total number of paths / destination ports: 2086 / 1130

-------------------------------------------------------------------------

Offset: 3.636ns (Levels of Logic = 1)

Source: en (PAD)

Destination: InstBryant\_GenReg4/Mshreg\_sBout\_4 (FF)

Destination Clock: clk rising

Data Path: en to InstBryant\_GenReg4/Mshreg\_sBout\_4

Gate Net

Cell:in->out fanout Delay Delay Logical Name (Net Name)

---------------------------------------- ------------

IBUF:I->O 532 0.754 2.038 en\_IBUF (en\_IBUF)

SRL16E:CE 0.844 InstBryant\_GenReg4/Mshreg\_sBout\_4

----------------------------------------

Total 3.636ns (1.598ns logic, 2.038ns route)

(43.9% logic, 56.1% route)

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Timing constraint: Default OFFSET OUT AFTER for Clock 'clk'

Total number of paths / destination ports: 1750 / 48

-------------------------------------------------------------------------

Offset: 6.443ns (Levels of Logic = 50)

Source: InstBryant\_GenReg6/sSumout\_0 (FF)

Destination: SumOut<47> (PAD)

Source Clock: clk rising

Data Path: InstBryant\_GenReg6/sSumout\_0 to SumOut<47>

Gate Net

Cell:in->out fanout Delay Delay Logical Name (Net Name)

---------------------------------------- ------------

FDRE:C->Q 1 0.272 0.388 InstBryant\_GenReg6/sSumout\_0 (InstBryant\_GenReg6/sSumout\_0)

LUT1:I0->O 1 0.147 0.000 Madd\_SumOut\_cy<0>\_rt (Madd\_SumOut\_cy<0>\_rt)

MUXCY:S->O 1 0.278 0.000 Madd\_SumOut\_cy<0> (Madd\_SumOut\_cy<0>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<1> (Madd\_SumOut\_cy<1>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<2> (Madd\_SumOut\_cy<2>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<3> (Madd\_SumOut\_cy<3>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<4> (Madd\_SumOut\_cy<4>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<5> (Madd\_SumOut\_cy<5>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<6> (Madd\_SumOut\_cy<6>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<7> (Madd\_SumOut\_cy<7>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<8> (Madd\_SumOut\_cy<8>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<9> (Madd\_SumOut\_cy<9>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<10> (Madd\_SumOut\_cy<10>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<11> (Madd\_SumOut\_cy<11>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<12> (Madd\_SumOut\_cy<12>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<13> (Madd\_SumOut\_cy<13>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<14> (Madd\_SumOut\_cy<14>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<15> (Madd\_SumOut\_cy<15>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<16> (Madd\_SumOut\_cy<16>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<17> (Madd\_SumOut\_cy<17>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<18> (Madd\_SumOut\_cy<18>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<19> (Madd\_SumOut\_cy<19>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<20> (Madd\_SumOut\_cy<20>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<21> (Madd\_SumOut\_cy<21>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<22> (Madd\_SumOut\_cy<22>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<23> (Madd\_SumOut\_cy<23>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<24> (Madd\_SumOut\_cy<24>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<25> (Madd\_SumOut\_cy<25>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<26> (Madd\_SumOut\_cy<26>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<27> (Madd\_SumOut\_cy<27>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<28> (Madd\_SumOut\_cy<28>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<29> (Madd\_SumOut\_cy<29>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<30> (Madd\_SumOut\_cy<30>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<31> (Madd\_SumOut\_cy<31>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<32> (Madd\_SumOut\_cy<32>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<33> (Madd\_SumOut\_cy<33>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<34> (Madd\_SumOut\_cy<34>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<35> (Madd\_SumOut\_cy<35>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<36> (Madd\_SumOut\_cy<36>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<37> (Madd\_SumOut\_cy<37>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<38> (Madd\_SumOut\_cy<38>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<39> (Madd\_SumOut\_cy<39>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<40> (Madd\_SumOut\_cy<40>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<41> (Madd\_SumOut\_cy<41>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<42> (Madd\_SumOut\_cy<42>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<43> (Madd\_SumOut\_cy<43>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<44> (Madd\_SumOut\_cy<44>)

MUXCY:CI->O 1 0.034 0.000 Madd\_SumOut\_cy<45> (Madd\_SumOut\_cy<45>)

MUXCY:CI->O 0 0.034 0.000 Madd\_SumOut\_cy<46> (Madd\_SumOut\_cy<46>)

XORCY:CI->O 1 0.273 0.266 Madd\_SumOut\_xor<47> (SumOut\_47\_OBUF)

OBUF:I->O 3.255 SumOut\_47\_OBUF (SumOut<47>)

----------------------------------------

Total 6.443ns (5.789ns logic, 0.654ns route)

(89.8% logic, 10.2% route)

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Total REAL time to Xst completion: 16.00 secs

Total CPU time to Xst completion: 15.73 secs

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Total memory usage is 4622124 kilobytes

Number of errors : 0 ( 0 filtered)

Number of warnings : 339 ( 0 filtered)

Number of infos : 1 ( 0 filtered)