**Metrics for net Petri net**

**Density metric**

0.022071307300509338

**Details**

|F| = 156

|P X T| = 3534

**Extended Cardoso metric**

71.0

**Details**

Place source 1 = 1

Place sink 2 = 0

Place sink 3 = 1

Place sink 4 = 1

Place sink 5 = 1

Place sink 6 = 1

Place sink 7 = 1

Place sink 8 = 1

Place sink 9 = 1

Place sink 10 = 1

Place sink 11 = 1

Place sink 12 = 1

Place sink 13 = 1

Place sink 14 = 1

Place sink 15 = 1

Place sink 16 = 1

Place notDoneFirst 17 = 2

Place doneFirst 18 = 5

Place childSource 19 = 2

Place childSink 20 = 1

Place doChild 21 = 1

Place childSource 22 = 2

Place childSink 23 = 1

Place doChild 24 = 1

Place sink 25 = 1

Place sink 26 = 1

Place notDoneFirst 27 = 2

Place doneFirst 28 = 5

Place childSource 29 = 2

Place childSink 30 = 1

Place doChild 31 = 1

Place childSource 32 = 2

Place childSink 33 = 1

Place doChild 34 = 1

Place sink 35 = 1

Place sink 36 = 1

Place sink 37 = 1

Place sink 38 = 1

Place sink 39 = 2

Place sink 40 = 1

Place sink 41 = 1

Place sink 42 = 1

Place sink 43 = 1

Place sink 44 = 1

Place sink 45 = 1

Place sink 46 = 1

Place sink 47 = 1

Place sink 48 = 1

Place sink 49 = 1

Place sink 50 = 1

Place sink 51 = 1

Place sink 52 = 1

Place sink 53 = 1

Place sink 54 = 1

Place sink 55 = 1

Place sink 56 = 1

Place sink 57 = 1

Metric = 71

**Extended Cyclomatic metric**

83.0

**Details**

|E| = 83

|V| = 61

p = 61

**Number of arcs**

156.0

**Details**

**Number of places**

57.0

**Details**

**Number of transitions**

62.0

**Details**

**Structuredness metric**

33915.0

**Details**

SEQUENCE sink 3

Removed place sink 3

Added arc from START to sink 4

Removed transition 01\_HOOFD\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 4

Removed place sink 4

Added arc from START to sink 5

Removed transition 01\_HOOFD\_011

Sum = 3.0

Metric = 3.0

SEQUENCE sink 5

Removed place sink 5

Added arc from START to sink 6

Removed transition 01\_HOOFD\_015

Sum = 4.0

Metric = 4.0

SEQUENCE sink 6

Removed place sink 6

Added arc from START to sink 7

Removed transition 05\_EIND\_010

Sum = 5.0

Metric = 5.0

SEQUENCE sink 7

Removed place sink 7

Added arc from START to sink 8

Removed transition 01\_HOOFD\_020

Sum = 6.0

Metric = 6.0

SEQUENCE sink 8

Removed place sink 8

Added arc from START to sink 9

Removed transition 01\_HOOFD\_030\_1

Sum = 7.0

Metric = 7.0

SEQUENCE sink 9

Removed place sink 9

Added arc from START to sink 10

Removed transition 01\_HOOFD\_030\_2

Sum = 8.0

Metric = 8.0

SEQUENCE sink 10

Removed place sink 10

Added arc from START to sink 11

Removed transition 01\_HOOFD\_061

Sum = 9.0

Metric = 9.0

SEQUENCE sink 11

Removed place sink 11

Added arc from START to sink 12

Removed transition 02\_DRZ\_010

Sum = 10.0

Metric = 10.0

SEQUENCE sink 12

Removed place sink 12

Added arc from START to sink 13

Removed transition 04\_BPT\_005

Sum = 11.0

Metric = 11.0

SEQUENCE sink 13

Removed place sink 13

Added arc from START to sink 14

Removed transition 01\_HOOFD\_065\_1

Sum = 12.0

Metric = 12.0

SEQUENCE sink 16

Removed place sink 16

Added arc from tau finish to sink 25

Removed transition 01\_HOOFD\_180

Sum = 2.0

Metric = 2.0

SEQUENCE sink 25

Removed place sink 25

Added arc from tau finish to childSource 29

Added arc from tau finish to childSource 32

Added arc from tau finish to notDoneFirst 27

Removed transition tau start

Sum = 3.0

Metric = 3.0

SEQUENCE sink 26

Removed place sink 26

Added arc from tau finish to sink 36

Removed transition 01\_HOOFD\_196

Sum = 2.0

Metric = 2.0

SEQUENCE sink 35

Removed place sink 35

Added arc from 08\_AWB45\_010 to childSink 33

Removed transition 08\_AWB45\_020\_1

Sum = 2.0

Metric = 2.0

SEQUENCE sink 36

Removed place sink 36

Added arc from tau finish to sink 38

Removed transition 01\_HOOFD\_195

Sum = 3.0

Metric = 3.0

SEQUENCE sink 37

Removed place sink 37

Added arc from 01\_HOOFD\_200 to sink 39

Removed transition 01\_HOOFD\_250\_1

Sum = 2.0

Metric = 2.0

SEQUENCE sink 38

Removed place sink 38

Added arc from tau finish to sink 39

Removed transition 01\_HOOFD\_200

Sum = 5.0

Metric = 5.0

SEQUENCE sink 41

Removed place sink 41

Added arc from 01\_HOOFD\_250 to sink 40

Removed transition 01\_HOOFD\_260

Sum = 2.0

Metric = 2.0

SEQUENCE sink 42

Removed place sink 42

Added arc from 01\_HOOFD\_330 to sink 43

Removed transition 09\_AH\_I\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 43

Removed place sink 43

Added arc from 01\_HOOFD\_330 to sink 44

Removed transition 01\_HOOFD\_370

Sum = 3.0

Metric = 3.0

SEQUENCE sink 44

Removed place sink 44

Added arc from 01\_HOOFD\_330 to sink 45

Removed transition 01\_HOOFD\_375

Sum = 4.0

Metric = 4.0

SEQUENCE sink 47

Removed place sink 47

Added arc from 01\_HOOFD\_430 to sink 48

Removed transition 11\_AH\_II\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 48

Removed place sink 48

Added arc from 01\_HOOFD\_430 to sink 49

Removed transition 01\_HOOFD\_480

Sum = 3.0

Metric = 3.0

SEQUENCE sink 49

Removed place sink 49

Added arc from 01\_HOOFD\_430 to sink 50

Removed transition 01\_HOOFD\_490\_1

Sum = 4.0

Metric = 4.0

SEQUENCE sink 50

Removed place sink 50

Added arc from 01\_HOOFD\_430 to sink 51

Removed transition 01\_HOOFD\_490\_2

Sum = 5.0

Metric = 5.0

SEQUENCE sink 51

Removed place sink 51

Added arc from 01\_HOOFD\_430 to sink 52

Removed transition 01\_HOOFD\_495

Sum = 6.0

Metric = 6.0

SEQUENCE sink 52

Removed place sink 52

Added arc from 01\_HOOFD\_430 to sink 53

Removed transition 01\_HOOFD\_500

Sum = 7.0

Metric = 7.0

SEQUENCE sink 53

Removed place sink 53

Added arc from 01\_HOOFD\_430 to sink 54

Removed transition 01\_HOOFD\_510\_1

Sum = 8.0

Metric = 8.0

SEQUENCE sink 54

Removed place sink 54

Added arc from 01\_HOOFD\_430 to sink 55

Removed transition 01\_HOOFD\_510\_3

Sum = 9.0

Metric = 9.0

SEQUENCE sink 57

Removed place sink 57

Added arc from 01\_HOOFD\_510\_2 to sink 2

Removed transition END

Sum = 2.0

Metric = 2.0

CHOICE 01\_HOOFD\_065\_2

Removed transition 01\_HOOFD\_065\_0

Sum = 2.0

Metric = 3.0

SEQUENCE sink 14

Removed place sink 14

Added arc from START to sink 15

Removed transition 01\_HOOFD\_065\_2

Sum = 15.0

Metric = 15.0

SEQUENCE sink 15

Removed place sink 15

Added arc from START to childSource 19

Added arc from START to notDoneFirst 17

Added arc from START to childSource 22

Removed transition tau start

Sum = 16.0

Metric = 16.0

CHOICE 01\_HOOFD\_250\_2

Removed transition 01\_HOOFD\_250

Sum = 3.0

Metric = 4.5

SEQUENCE sink 39

Removed place sink 39

Added arc from tau finish to sink 40

Removed transition 01\_HOOFD\_250\_2

Sum = 9.5

Metric = 9.5

SEQUENCE sink 40

Removed place sink 40

Added arc from tau finish to sink 45

Removed transition 01\_HOOFD\_330

Sum = 13.5

Metric = 13.5

CHOICE 01\_HOOFD\_380

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 45

Removed place sink 45

Added arc from tau finish to sink 46

Removed transition 01\_HOOFD\_380

Sum = 16.5

Metric = 16.5

SEQUENCE sink 46

Removed place sink 46

Added arc from tau finish to sink 55

Removed transition 01\_HOOFD\_430

Sum = 25.5

Metric = 25.5

CHOICE 01\_HOOFD\_510\_4

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 55

Removed place sink 55

Added arc from tau finish to sink 56

Removed transition 01\_HOOFD\_510\_4

Sum = 28.5

Metric = 28.5

SEQUENCE sink 56

Removed place sink 56

Added arc from tau finish to sink 2

Removed transition 01\_HOOFD\_510\_2

Sum = 30.5

Metric = 30.5

UNSTRUCTURED source 1 -> sink 2

In place doChild 24

Out place notDoneFirst 27

In place doChild 31

Out transition START

In place doChild 34

In place childSink 20

Out place childSource 22

Out transition tau laterDoChild

In transition tau laterDoChild

Out transition tau skipChild

In transition tau skipChild

Out transition tau firstDoChild

In transition tau firstDoChild

Out place doneFirst 18

In place doneFirst 18

Out transition tau finish

In transition tau finish

Out place notDoneFirst 17

Out transition tau skipChild

In transition tau skipChild

In place childSink 23

In place childSink 33

Out transition tau laterDoChild

In transition tau laterDoChild

Out transition tau firstDoChild

In transition tau firstDoChild

Out place childSource 19

Out place doneFirst 28

In place doneFirst 28

In transition tau finish

Out transition tau firstDoChild

In transition tau firstDoChild

Out transition tau firstDoChild

In transition tau firstDoChild

In place childSink 30

Out place childSource 29

Out transition tau skipChild

In transition tau skipChild

Out place childSource 32

Out transition tau laterDoChild

In transition tau laterDoChild

Out transition tau laterDoChild

In transition tau laterDoChild

In place doChild 21

Out transition tau skipChild

In transition tau skipChild

|F| = 70

|P U T| = 37

Sum = 11305.0

DiffP = 3

DiffT = 1

Added arc from START to sink 2

Removed place doChild 24

Removed place notDoneFirst 27

Removed place doChild 31

Removed transition 01\_HOOFD\_101

Removed transition 01\_HOOFD\_110\_0

Removed place doChild 34

Removed place childSink 20

Removed place childSource 22

Removed transition tau laterDoChild

Removed transition tau skipChild

Removed transition tau firstDoChild

Removed place doneFirst 18

Removed transition tau finish

Removed place notDoneFirst 17

Removed transition tau skipChild

Removed place childSink 23

Removed place childSink 33

Removed transition tau laterDoChild

Removed transition tau firstDoChild

Removed place childSource 19

Removed transition 08\_AWB45\_005

Removed place doneFirst 28

Removed transition tau finish

Removed transition tau firstDoChild

Removed transition tau firstDoChild

Removed place childSink 30

Removed place childSource 29

Removed transition tau skipChild

Removed place childSource 32

Removed transition 08\_AWB45\_010

Removed transition tau laterDoChild

Removed transition tau laterDoChild

Removed place doChild 21

Removed transition tau skipChild

Metric = 33915.0