**Metrics for net Petri net**

**Density metric**

0.01583011583011583

**Details**

|F| = 164

|P X T| = 5180

**Extended Cardoso metric**

76.0

**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 sink 17 = 1

Place sink 18 = 1

Place sink 19 = 1

Place sink 20 = 1

Place sink 21 = 1

Place notDoneFirst 22 = 2

Place doneFirst 23 = 5

Place childSource 24 = 2

Place childSink 25 = 1

Place doChild 26 = 1

Place childSource 27 = 2

Place childSink 28 = 1

Place doChild 29 = 1

Place sink 30 = 1

Place sink 31 = 1

Place sink 32 = 1

Place sink 33 = 1

Place sink 34 = 1

Place sink 35 = 1

Place sink 36 = 1

Place sink 37 = 1

Place sink 38 = 1

Place sink 39 = 1

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

Place sink 58 = 1

Place sink 59 = 1

Place sink 60 = 1

Place sink 61 = 1

Place sink 62 = 1

Place sink 63 = 1

Place sink 64 = 1

Place sink 65 = 1

Place sink 66 = 1

Place sink 67 = 1

Place sink 68 = 1

Place sink 69 = 1

Place sink 70 = 1

Metric = 76

**Extended Cyclomatic metric**

82.0

**Details**

|E| = 82

|V| = 71

p = 71

**Number of arcs**

164.0

**Details**

**Number of places**

70.0

**Details**

**Number of transitions**

74.0

**Details**

**Structuredness metric**

13260.0

**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 01\_HOOFD\_020

Sum = 5.0

Metric = 5.0

SEQUENCE sink 7

Removed place sink 7

Added arc from START to sink 8

Removed transition 01\_HOOFD\_030\_1

Sum = 6.0

Metric = 6.0

SEQUENCE sink 8

Removed place sink 8

Added arc from START to sink 9

Removed transition 01\_HOOFD\_061

Sum = 7.0

Metric = 7.0

SEQUENCE sink 9

Removed place sink 9

Added arc from START to sink 10

Removed transition 01\_HOOFD\_065\_0

Sum = 8.0

Metric = 8.0

SEQUENCE sink 10

Removed place sink 10

Added arc from START to sink 11

Removed transition 02\_DRZ\_010

Sum = 9.0

Metric = 9.0

SEQUENCE sink 11

Removed place sink 11

Added arc from START to sink 12

Removed transition 03\_GBH\_005

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 05\_EIND\_010

Sum = 12.0

Metric = 12.0

SEQUENCE sink 14

Removed place sink 14

Added arc from START to sink 15

Removed transition 16\_LGSV\_010

Sum = 13.0

Metric = 13.0

SEQUENCE sink 18

Removed place sink 18

Added arc from 01\_HOOFD\_110\_1 to sink 19

Removed transition 01\_HOOFD\_110\_2

Sum = 2.0

Metric = 2.0

SEQUENCE sink 19

Removed place sink 19

Added arc from 01\_HOOFD\_110\_1 to sink 20

Removed transition 01\_HOOFD\_180

Sum = 3.0

Metric = 3.0

SEQUENCE sink 20

Removed place sink 20

Added arc from 01\_HOOFD\_110\_1 to childSource 24

Added arc from 01\_HOOFD\_110\_1 to childSource 27

Added arc from 01\_HOOFD\_110\_1 to notDoneFirst 22

Removed transition tau start

Sum = 4.0

Metric = 4.0

SEQUENCE sink 21

Removed place sink 21

Added arc from tau finish to sink 30

Removed transition 01\_HOOFD\_200

Sum = 2.0

Metric = 2.0

SEQUENCE sink 30

Removed place sink 30

Added arc from tau finish to sink 31

Removed transition 01\_HOOFD\_250\_1

Sum = 3.0

Metric = 3.0

SEQUENCE sink 31

Removed place sink 31

Added arc from tau finish to sink 32

Removed transition 01\_HOOFD\_250\_2

Sum = 4.0

Metric = 4.0

SEQUENCE sink 32

Removed place sink 32

Added arc from tau finish to sink 33

Removed transition 01\_HOOFD\_330

Sum = 5.0

Metric = 5.0

SEQUENCE sink 33

Removed place sink 33

Added arc from tau finish to sink 34

Removed transition 01\_HOOFD\_370

Sum = 6.0

Metric = 6.0

SEQUENCE sink 34

Removed place sink 34

Added arc from tau finish to sink 35

Removed transition 01\_HOOFD\_375

Sum = 7.0

Metric = 7.0

SEQUENCE sink 35

Removed place sink 35

Added arc from tau finish to sink 36

Removed transition 01\_HOOFD\_380

Sum = 8.0

Metric = 8.0

SEQUENCE sink 36

Removed place sink 36

Added arc from tau finish to sink 37

Removed transition 01\_HOOFD\_430

Sum = 9.0

Metric = 9.0

SEQUENCE sink 37

Removed place sink 37

Added arc from tau finish to sink 38

Removed transition 01\_HOOFD\_480

Sum = 10.0

Metric = 10.0

SEQUENCE sink 38

Removed place sink 38

Added arc from tau finish to sink 39

Removed transition 01\_HOOFD\_490\_1

Sum = 11.0

Metric = 11.0

SEQUENCE sink 39

Removed place sink 39

Added arc from tau finish to sink 40

Removed transition 01\_HOOFD\_490\_1a

Sum = 12.0

Metric = 12.0

SEQUENCE sink 40

Removed place sink 40

Added arc from tau finish to sink 41

Removed transition 01\_HOOFD\_490\_2

Sum = 13.0

Metric = 13.0

SEQUENCE sink 41

Removed place sink 41

Added arc from tau finish to sink 42

Removed transition 08\_AWB45\_005

Sum = 14.0

Metric = 14.0

SEQUENCE sink 44

Removed place sink 44

Added arc from 11\_AH\_II\_010 to sink 45

Removed transition 13\_CRD\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 45

Removed place sink 45

Added arc from 11\_AH\_II\_010 to sink 46

Removed transition 01\_HOOFD\_490\_4

Sum = 3.0

Metric = 3.0

SEQUENCE sink 46

Removed place sink 46

Added arc from 11\_AH\_II\_010 to sink 47

Removed transition 01\_HOOFD\_490\_5a

Sum = 4.0

Metric = 4.0

SEQUENCE sink 47

Removed place sink 47

Added arc from 11\_AH\_II\_010 to sink 48

Removed transition 01\_HOOFD\_491

Sum = 5.0

Metric = 5.0

SEQUENCE sink 48

Removed place sink 48

Added arc from 11\_AH\_II\_010 to sink 49

Removed transition 01\_HOOFD\_494a

Sum = 6.0

Metric = 6.0

SEQUENCE sink 49

Removed place sink 49

Added arc from 11\_AH\_II\_010 to sink 50

Removed transition 01\_HOOFD\_495

Sum = 7.0

Metric = 7.0

SEQUENCE sink 50

Removed place sink 50

Added arc from 11\_AH\_II\_010 to sink 51

Removed transition 01\_HOOFD\_500

Sum = 8.0

Metric = 8.0

SEQUENCE sink 51

Removed place sink 51

Added arc from 11\_AH\_II\_010 to sink 52

Removed transition 01\_HOOFD\_510\_0

Sum = 9.0

Metric = 9.0

SEQUENCE sink 52

Removed place sink 52

Added arc from 11\_AH\_II\_010 to sink 53

Removed transition 01\_HOOFD\_510\_1

Sum = 10.0

Metric = 10.0

SEQUENCE sink 53

Removed place sink 53

Added arc from 11\_AH\_II\_010 to sink 54

Removed transition 01\_HOOFD\_510\_2a

Sum = 11.0

Metric = 11.0

SEQUENCE sink 54

Removed place sink 54

Added arc from 11\_AH\_II\_010 to sink 55

Removed transition 01\_HOOFD\_510\_3

Sum = 12.0

Metric = 12.0

SEQUENCE sink 55

Removed place sink 55

Added arc from 11\_AH\_II\_010 to sink 56

Removed transition 01\_HOOFD\_510\_4

Sum = 13.0

Metric = 13.0

SEQUENCE sink 56

Removed place sink 56

Added arc from 11\_AH\_II\_010 to sink 57

Removed transition 01\_HOOFD\_515

Sum = 14.0

Metric = 14.0

SEQUENCE sink 57

Removed place sink 57

Added arc from 11\_AH\_II\_010 to sink 58

Removed transition 16\_LGSD\_010

Sum = 15.0

Metric = 15.0

SEQUENCE sink 58

Removed place sink 58

Added arc from 11\_AH\_II\_010 to sink 59

Removed transition 01\_HOOFD\_490\_5

Sum = 16.0

Metric = 16.0

SEQUENCE sink 61

Removed place sink 61

Added arc from 01\_BB\_540 to sink 62

Removed transition 01\_BB\_775

Sum = 2.0

Metric = 2.0

SEQUENCE sink 62

Removed place sink 62

Added arc from 01\_BB\_540 to sink 63

Removed transition 01\_HOOFD\_101b

Sum = 3.0

Metric = 3.0

SEQUENCE sink 63

Removed place sink 63

Added arc from 01\_BB\_540 to sink 64

Removed transition 01\_HOOFD\_809

Sum = 4.0

Metric = 4.0

SEQUENCE sink 64

Removed place sink 64

Added arc from 01\_BB\_540 to sink 65

Removed transition 01\_HOOFD\_811

Sum = 5.0

Metric = 5.0

SEQUENCE sink 65

Removed place sink 65

Added arc from 01\_BB\_540 to sink 66

Removed transition 01\_HOOFD\_814

Sum = 6.0

Metric = 6.0

SEQUENCE sink 66

Removed place sink 66

Added arc from 01\_BB\_540 to sink 67

Removed transition 01\_HOOFD\_815

Sum = 7.0

Metric = 7.0

SEQUENCE sink 67

Removed place sink 67

Added arc from 01\_BB\_540 to sink 68

Removed transition 01\_HOOFD\_820

Sum = 8.0

Metric = 8.0

SEQUENCE sink 68

Removed place sink 68

Added arc from 01\_BB\_540 to sink 69

Removed transition 01\_BB\_770

Sum = 9.0

Metric = 9.0

SEQUENCE sink 69

Removed place sink 69

Added arc from 01\_BB\_540 to sink 70

Removed transition 01\_HOOFD\_810

Sum = 10.0

Metric = 10.0

SEQUENCE sink 70

Removed place sink 70

Added arc from 01\_BB\_540 to sink 2

Removed transition END

Sum = 11.0

Metric = 11.0

CHOICE 01\_HOOFD\_030\_2

Removed transition 04\_BPT\_010

Sum = 2.0

Metric = 3.0

SEQUENCE sink 15

Removed place sink 15

Added arc from START to sink 16

Removed transition 01\_HOOFD\_030\_2

Sum = 16.0

Metric = 16.0

CHOICE 01\_HOOFD\_110\_0

Removed transition 01\_HOOFD\_065\_1

Sum = 2.0

Metric = 3.0

SEQUENCE sink 16

Removed place sink 16

Added arc from START to sink 17

Removed transition 01\_HOOFD\_110\_0

Sum = 19.0

Metric = 19.0

SEQUENCE sink 17

Removed place sink 17

Added arc from START to childSource 24

Added arc from START to childSource 27

Added arc from START to notDoneFirst 22

Removed transition 01\_HOOFD\_110\_1

Sum = 23.0

Metric = 23.0

CHOICE 09\_AH\_I\_010

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 42

Removed place sink 42

Added arc from tau finish to sink 43

Removed transition 09\_AH\_I\_010

Sum = 17.0

Metric = 17.0

SEQUENCE sink 43

Removed place sink 43

Added arc from tau finish to sink 59

Removed transition 11\_AH\_II\_010

Sum = 33.0

Metric = 33.0

CHOICE 01\_HOOFD\_510\_2a

Removed transition 01\_HOOFD\_510\_2

Sum = 2.0

Metric = 3.0

SEQUENCE sink 59

Removed place sink 59

Added arc from tau finish to sink 60

Removed transition 01\_HOOFD\_510\_2a

Sum = 36.0

Metric = 36.0

SEQUENCE sink 60

Removed place sink 60

Added arc from tau finish to sink 2

Removed transition 01\_BB\_540

Sum = 47.0

Metric = 47.0

UNSTRUCTURED source 1 -> sink 2

Out place childSource 24

In place doChild 26

Out transition tau laterDoChild

In transition tau laterDoChild

Out place notDoneFirst 22

Out transition tau firstDoChild

In transition tau firstDoChild

Out transition tau skipChild

In transition tau skipChild

Out transition START

In place doChild 29

Out transition tau firstDoChild

In transition tau firstDoChild

In place childSink 25

Out transition tau laterDoChild

In transition tau laterDoChild

In transition tau finish

Out place doneFirst 23

In place doneFirst 23

Out place childSource 27

Out transition tau skipChild

In transition tau skipChild

In place childSink 28

|F| = 36

|P U T| = 20

Sum = 6630.0

DiffP = 2

DiffT = 1

Added arc from START to sink 2

Removed place childSource 24

Removed place doChild 26

Removed transition tau laterDoChild

Removed place notDoneFirst 22

Removed transition tau firstDoChild

Removed transition tau skipChild

Removed place doChild 29

Removed transition tau firstDoChild

Removed place childSink 25

Removed transition tau laterDoChild

Removed transition 01\_HOOFD\_196

Removed transition tau finish

Removed place doneFirst 23

Removed place childSource 27

Removed transition tau skipChild

Removed place childSink 28

Removed transition 01\_HOOFD\_195

Metric = 13260.0