**Metrics for net Petri net**

**Density metric**

0.015040953090096799

**Details**

|F| = 202

|P X T| = 6715

**Extended Cardoso metric**

92.0

**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 sink 22 = 1

Place sink 23 = 1

Place sink 24 = 1

Place sink 25 = 1

Place notDoneFirst 26 = 2

Place doneFirst 27 = 5

Place childSource 28 = 2

Place childSink 29 = 1

Place doChild 30 = 1

Place childSource 31 = 2

Place childSink 32 = 1

Place doChild 33 = 1

Place sink 34 = 1

Place sink 35 = 1

Place sink 36 = 1

Place sink 37 = 1

Place notDoneFirst 38 = 2

Place doneFirst 39 = 5

Place childSource 40 = 2

Place childSink 41 = 1

Place doChild 42 = 1

Place childSource 43 = 2

Place childSink 44 = 1

Place doChild 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 source 69 = 1

Place sink 70 = 1

Place sink 71 = 1

Place sink 72 = 1

Place sink 73 = 1

Place sink 74 = 1

Place sink 75 = 1

Place sink 76 = 1

Place sink 77 = 1

Place sink 78 = 1

Place sink 79 = 1

Metric = 92

**Extended Cyclomatic metric**

101.0

**Details**

|E| = 101

|V| = 81

p = 81

**Number of arcs**

202.0

**Details**

**Number of places**

79.0

**Details**

**Number of transitions**

85.0

**Details**

**Structuredness metric**

45900.0

**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 15

Removed place sink 15

Added arc from 16\_LGSV\_010 to sink 16

Removed transition 01\_HOOFD\_030\_2

Sum = 2.0

Metric = 2.0

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 sink 21

Removed transition 01\_HOOFD\_195

Sum = 4.0

Metric = 4.0

SEQUENCE sink 21

Removed place sink 21

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

Removed transition 01\_HOOFD\_200

Sum = 5.0

Metric = 5.0

SEQUENCE sink 22

Removed place sink 22

Added arc from 01\_HOOFD\_110\_1 to sink 23

Removed transition 01\_HOOFD\_250\_1

Sum = 6.0

Metric = 6.0

SEQUENCE sink 23

Removed place sink 23

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

Removed transition 01\_HOOFD\_250\_2

Sum = 7.0

Metric = 7.0

SEQUENCE sink 24

Removed place sink 24

Added arc from 01\_HOOFD\_110\_1 to childSource 28

Added arc from 01\_HOOFD\_110\_1 to childSource 31

Added arc from 01\_HOOFD\_110\_1 to notDoneFirst 26

Removed transition tau start

Sum = 8.0

Metric = 8.0

SEQUENCE sink 25

Removed place sink 25

Added arc from tau finish to sink 34

Removed transition 01\_HOOFD\_370

Sum = 2.0

Metric = 2.0

SEQUENCE sink 34

Removed place sink 34

Added arc from tau finish to sink 35

Removed transition 01\_HOOFD\_375

Sum = 3.0

Metric = 3.0

SEQUENCE sink 35

Removed place sink 35

Added arc from tau finish to sink 36

Removed transition 01\_HOOFD\_380

Sum = 4.0

Metric = 4.0

SEQUENCE sink 36

Removed place sink 36

Added arc from tau finish to childSource 40

Added arc from tau finish to notDoneFirst 38

Added arc from tau finish to childSource 43

Removed transition tau start

Sum = 5.0

Metric = 5.0

SEQUENCE sink 37

Removed place sink 37

Added arc from tau finish to sink 46

Removed transition 01\_HOOFD\_480

Sum = 2.0

Metric = 2.0

SEQUENCE sink 46

Removed place sink 46

Added arc from tau finish to sink 47

Removed transition 01\_HOOFD\_490\_1

Sum = 3.0

Metric = 3.0

SEQUENCE sink 47

Removed place sink 47

Added arc from tau finish to sink 48

Removed transition 01\_HOOFD\_490\_1a

Sum = 4.0

Metric = 4.0

SEQUENCE sink 48

Removed place sink 48

Added arc from tau finish to sink 49

Removed transition 01\_HOOFD\_490\_2

Sum = 5.0

Metric = 5.0

SEQUENCE sink 49

Removed place sink 49

Added arc from tau finish to sink 50

Removed transition 01\_HOOFD\_490\_4

Sum = 6.0

Metric = 6.0

SEQUENCE sink 50

Removed place sink 50

Added arc from tau finish to sink 51

Removed transition 01\_HOOFD\_490\_5a

Sum = 7.0

Metric = 7.0

SEQUENCE sink 51

Removed place sink 51

Added arc from tau finish to sink 52

Removed transition 01\_HOOFD\_491

Sum = 8.0

Metric = 8.0

SEQUENCE sink 52

Removed place sink 52

Added arc from tau finish to sink 53

Removed transition 01\_HOOFD\_494a

Sum = 9.0

Metric = 9.0

SEQUENCE sink 53

Removed place sink 53

Added arc from tau finish to sink 54

Removed transition 01\_HOOFD\_495

Sum = 10.0

Metric = 10.0

SEQUENCE sink 54

Removed place sink 54

Added arc from tau finish to sink 55

Removed transition 01\_HOOFD\_500

Sum = 11.0

Metric = 11.0

SEQUENCE sink 55

Removed place sink 55

Added arc from tau finish to sink 56

Removed transition 01\_HOOFD\_510\_0

Sum = 12.0

Metric = 12.0

SEQUENCE sink 56

Removed place sink 56

Added arc from tau finish to sink 57

Removed transition 01\_HOOFD\_510\_1

Sum = 13.0

Metric = 13.0

SEQUENCE sink 57

Removed place sink 57

Added arc from tau finish to sink 58

Removed transition 01\_HOOFD\_510\_2a

Sum = 14.0

Metric = 14.0

SEQUENCE sink 58

Removed place sink 58

Added arc from tau finish to sink 59

Removed transition 01\_HOOFD\_510\_3

Sum = 15.0

Metric = 15.0

SEQUENCE sink 61

Removed place sink 61

Added arc from 01\_HOOFD\_515 to sink 62

Removed transition 08\_AWB45\_005

Sum = 2.0

Metric = 2.0

SEQUENCE sink 62

Removed place sink 62

Added arc from 01\_HOOFD\_515 to sink 63

Removed transition 09\_AH\_I\_010

Sum = 3.0

Metric = 3.0

SEQUENCE sink 66

Removed place sink 66

Added arc from 01\_HOOFD\_490\_5 to sink 67

Removed transition 01\_HOOFD\_510\_2

Sum = 2.0

Metric = 2.0

SEQUENCE sink 67

Removed place sink 67

Added arc from 01\_HOOFD\_490\_5 to source 69

Removed transition tau split

Sum = 3.0

Metric = 3.0

SEQUENCE sink 68

Removed place sink 68

Added arc from tau join to sink 71

Removed transition 01\_BB\_775

Sum = 2.0

Metric = 2.0

SEQUENCE source 69

Removed place source 69

Added arc from 01\_HOOFD\_490\_5 to sink 70

Removed transition 01\_BB\_540

Sum = 4.0

Metric = 4.0

SEQUENCE sink 70

Removed place sink 70

Added arc from 01\_HOOFD\_490\_5 to sink 71

Removed transition tau join

Sum = 6.0

Metric = 6.0

SEQUENCE sink 71

Removed place sink 71

Added arc from 01\_HOOFD\_490\_5 to sink 72

Removed transition 01\_HOOFD\_101b

Sum = 7.0

Metric = 7.0

SEQUENCE sink 72

Removed place sink 72

Added arc from 01\_HOOFD\_490\_5 to sink 73

Removed transition 01\_HOOFD\_809

Sum = 8.0

Metric = 8.0

SEQUENCE sink 73

Removed place sink 73

Added arc from 01\_HOOFD\_490\_5 to sink 74

Removed transition 01\_HOOFD\_811

Sum = 9.0

Metric = 9.0

SEQUENCE sink 74

Removed place sink 74

Added arc from 01\_HOOFD\_490\_5 to sink 75

Removed transition 01\_HOOFD\_814

Sum = 10.0

Metric = 10.0

SEQUENCE sink 75

Removed place sink 75

Added arc from 01\_HOOFD\_490\_5 to sink 76

Removed transition 01\_HOOFD\_815

Sum = 11.0

Metric = 11.0

SEQUENCE sink 76

Removed place sink 76

Added arc from 01\_HOOFD\_490\_5 to sink 77

Removed transition 01\_HOOFD\_820

Sum = 12.0

Metric = 12.0

SEQUENCE sink 77

Removed place sink 77

Added arc from 01\_HOOFD\_490\_5 to sink 78

Removed transition 01\_BB\_770

Sum = 13.0

Metric = 13.0

SEQUENCE sink 78

Removed place sink 78

Added arc from 01\_HOOFD\_490\_5 to sink 79

Removed transition 01\_HOOFD\_810

Sum = 14.0

Metric = 14.0

SEQUENCE sink 79

Removed place sink 79

Added arc from 01\_HOOFD\_490\_5 to sink 2

Removed transition END

Sum = 15.0

Metric = 15.0

CHOICE 05\_EIND\_010

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 13

Removed place sink 13

Added arc from START to sink 14

Removed transition 05\_EIND\_010

Sum = 14.0

Metric = 14.0

SEQUENCE sink 14

Removed place sink 14

Added arc from START to sink 16

Removed transition 16\_LGSV\_010

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 28

Added arc from START to childSource 31

Added arc from START to notDoneFirst 26

Removed transition 01\_HOOFD\_110\_1

Sum = 27.0

Metric = 27.0

CHOICE 01\_HOOFD\_510\_4

Removed transition tau from tree

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\_4

Sum = 18.0

Metric = 18.0

SEQUENCE sink 60

Removed place sink 60

Added arc from tau finish to sink 63

Removed transition 01\_HOOFD\_515

Sum = 21.0

Metric = 21.0

CHOICE 13\_CRD\_010

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 63

Removed place sink 63

Added arc from tau finish to sink 64

Removed transition 13\_CRD\_010

Sum = 24.0

Metric = 24.0

CHOICE 16\_LGSD\_010

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 64

Removed place sink 64

Added arc from tau finish to sink 65

Removed transition 16\_LGSD\_010

Sum = 27.0

Metric = 27.0

SEQUENCE sink 65

Removed place sink 65

Added arc from tau finish to sink 2

Removed transition 01\_HOOFD\_490\_5

Sum = 42.0

Metric = 42.0

UNSTRUCTURED source 1 -> sink 2

Out transition tau firstDoChild

In transition tau firstDoChild

In place childSink 41

In place childSink 32

Out place childSource 28

Out place doneFirst 39

In place doneFirst 39

Out place notDoneFirst 26

Out transition tau laterDoChild

In transition tau laterDoChild

Out place notDoneFirst 38

Out place doneFirst 27

In place doneFirst 27

Out transition tau laterDoChild

In transition tau laterDoChild

In place childSink 44

In place doChild 33

Out transition START

In place doChild 45

In place childSink 29

In transition tau finish

Out place childSource 31

Out transition tau finish

In transition tau finish

Out transition tau skipChild

In transition tau skipChild

Out transition tau laterDoChild

In transition tau laterDoChild

Out transition tau skipChild

In transition tau skipChild

Out place childSource 40

Out transition tau firstDoChild

In transition tau firstDoChild

In place doChild 42

Out transition tau skipChild

In transition tau skipChild

Out place childSource 43

Out transition tau skipChild

In transition tau skipChild

In place doChild 30

Out transition tau laterDoChild

In transition tau laterDoChild

Out transition tau firstDoChild

In transition tau firstDoChild

Out transition tau firstDoChild

In transition tau firstDoChild

|F| = 70

|P U T| = 37

Sum = 15300.0

DiffP = 3

DiffT = 1

Added arc from START to sink 2

Removed transition tau firstDoChild

Removed place childSink 41

Removed transition 01\_HOOFD\_330

Removed place childSink 32

Removed transition 09\_AH\_I\_010

Removed place childSource 28

Removed place doneFirst 39

Removed place notDoneFirst 26

Removed transition tau laterDoChild

Removed place notDoneFirst 38

Removed place doneFirst 27

Removed transition tau laterDoChild

Removed place childSink 44

Removed place doChild 33

Removed place doChild 45

Removed place childSink 29

Removed transition tau finish

Removed place childSource 31

Removed transition tau finish

Removed transition tau skipChild

Removed transition tau laterDoChild

Removed transition tau skipChild

Removed place childSource 40

Removed transition tau firstDoChild

Removed place doChild 42

Removed transition tau skipChild

Removed place childSource 43

Removed transition tau skipChild

Removed place doChild 30

Removed transition tau laterDoChild

Removed transition 01\_HOOFD\_430

Removed transition tau firstDoChild

Removed transition 11\_AH\_II\_010

Removed transition tau firstDoChild

Metric = 45900.0