**Metrics for net Petri net**

**Density metric**

0.016666666666666666

**Details**

|F| = 246

|P X T| = 7380

**Extended Cardoso metric**

111.0

**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 notDoneFirst 10 = 2

Place doneFirst 11 = 5

Place childSource 12 = 2

Place childSink 13 = 1

Place doChild 14 = 1

Place childSource 15 = 2

Place childSink 16 = 1

Place doChild 17 = 1

Place sink 18 = 1

Place notDoneFirst 19 = 2

Place doneFirst 20 = 5

Place childSource 21 = 2

Place childSink 22 = 1

Place doChild 23 = 1

Place childSource 24 = 2

Place childSink 25 = 1

Place doChild 26 = 1

Place sink 27 = 1

Place sink 28 = 1

Place sink 29 = 1

Place sink 30 = 2

Place sink 31 = 1

Place notDoneFirst 32 = 2

Place doneFirst 33 = 5

Place childSource 34 = 2

Place childSink 35 = 1

Place doChild 36 = 1

Place notDoneFirst 37 = 2

Place doneFirst 38 = 5

Place childSource 39 = 2

Place childSink 40 = 1

Place doChild 41 = 1

Place childSource 42 = 2

Place childSink 43 = 1

Place doChild 44 = 1

Place childSource 45 = 2

Place childSink 46 = 1

Place doChild 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 = 2

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

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 source 77 = 1

Place sink 78 = 1

Place source 79 = 1

Place sink 80 = 1

Place sink 81 = 1

Place sink 82 = 1

Metric = 111

**Extended Cyclomatic metric**

186.0

**Details**

|E| = 186

|V| = 104

p = 104

**Number of arcs**

246.0

**Details**

**Number of places**

82.0

**Details**

**Number of transitions**

90.0

**Details**

**Structuredness metric**

21467.0

**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 03\_GBH\_005

Sum = 5.0

Metric = 5.0

SEQUENCE sink 9

Removed place sink 9

Added arc from tau finish to childSource 21

Added arc from tau finish to notDoneFirst 19

Added arc from tau finish to childSource 24

Removed transition tau start

Sum = 2.0

Metric = 2.0

SEQUENCE sink 18

Removed place sink 18

Added arc from tau finish to sink 27

Removed transition 02\_DRZ\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 27

Removed place sink 27

Added arc from tau finish to sink 28

Removed transition 01\_HOOFD\_061

Sum = 3.0

Metric = 3.0

SEQUENCE sink 28

Removed place sink 28

Added arc from tau finish to sink 29

Removed transition 04\_BPT\_005

Sum = 4.0

Metric = 4.0

SEQUENCE sink 29

Removed place sink 29

Added arc from tau finish to sink 30

Removed transition 01\_HOOFD\_065\_0

Sum = 5.0

Metric = 5.0

SEQUENCE sink 48

Removed place sink 48

Added arc from 01\_HOOFD\_180 to sink 49

Removed transition 01\_HOOFD\_195

Sum = 2.0

Metric = 2.0

SEQUENCE sink 49

Removed place sink 49

Added arc from 01\_HOOFD\_180 to sink 50

Removed transition 08\_AWB45\_005

Sum = 3.0

Metric = 3.0

SEQUENCE sink 50

Removed place sink 50

Added arc from 01\_HOOFD\_180 to sink 51

Removed transition 01\_HOOFD\_196

Sum = 4.0

Metric = 4.0

SEQUENCE sink 51

Removed place sink 51

Added arc from 01\_HOOFD\_180 to sink 52

Removed transition 01\_HOOFD\_200

Sum = 5.0

Metric = 5.0

SEQUENCE sink 52

Removed place sink 52

Added arc from 01\_HOOFD\_180 to sink 53

Removed transition 01\_HOOFD\_250\_1

Sum = 6.0

Metric = 6.0

SEQUENCE sink 55

Removed place sink 55

Added arc from 01\_HOOFD\_250 to sink 54

Removed transition 01\_HOOFD\_260

Sum = 2.0

Metric = 2.0

SEQUENCE sink 56

Removed place sink 56

Added arc from 01\_HOOFD\_330 to sink 57

Removed transition 09\_AH\_I\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 57

Removed place sink 57

Added arc from 01\_HOOFD\_330 to sink 58

Removed transition 01\_HOOFD\_370

Sum = 3.0

Metric = 3.0

SEQUENCE sink 58

Removed place sink 58

Added arc from 01\_HOOFD\_330 to sink 59

Removed transition 01\_HOOFD\_375

Sum = 4.0

Metric = 4.0

SEQUENCE sink 59

Removed place sink 59

Added arc from 01\_HOOFD\_330 to sink 60

Removed transition 01\_HOOFD\_380

Sum = 5.0

Metric = 5.0

SEQUENCE sink 60

Removed place sink 60

Added arc from 01\_HOOFD\_330 to sink 61

Removed transition 01\_HOOFD\_430

Sum = 6.0

Metric = 6.0

SEQUENCE sink 61

Removed place sink 61

Added arc from 01\_HOOFD\_330 to sink 62

Removed transition 11\_AH\_II\_010

Sum = 7.0

Metric = 7.0

SEQUENCE sink 62

Removed place sink 62

Added arc from 01\_HOOFD\_330 to sink 63

Removed transition 01\_HOOFD\_480

Sum = 8.0

Metric = 8.0

SEQUENCE sink 63

Removed place sink 63

Added arc from 01\_HOOFD\_330 to sink 64

Removed transition 01\_HOOFD\_490\_1

Sum = 9.0

Metric = 9.0

SEQUENCE sink 64

Removed place sink 64

Added arc from 01\_HOOFD\_330 to sink 65

Removed transition 01\_HOOFD\_490\_1a

Sum = 10.0

Metric = 10.0

SEQUENCE sink 65

Removed place sink 65

Added arc from 01\_HOOFD\_330 to sink 66

Removed transition 01\_HOOFD\_490\_2

Sum = 11.0

Metric = 11.0

SEQUENCE sink 66

Removed place sink 66

Added arc from 01\_HOOFD\_330 to sink 67

Removed transition 01\_HOOFD\_490\_4

Sum = 12.0

Metric = 12.0

SEQUENCE sink 69

Removed place sink 69

Added arc from 01\_HOOFD\_491 to sink 70

Removed transition 01\_HOOFD\_494a

Sum = 2.0

Metric = 2.0

SEQUENCE sink 70

Removed place sink 70

Added arc from 01\_HOOFD\_491 to sink 71

Removed transition 01\_HOOFD\_495

Sum = 3.0

Metric = 3.0

SEQUENCE sink 71

Removed place sink 71

Added arc from 01\_HOOFD\_491 to sink 72

Removed transition 01\_HOOFD\_500

Sum = 4.0

Metric = 4.0

SEQUENCE sink 74

Removed place sink 74

Added arc from 01\_HOOFD\_510\_1 to sink 75

Removed transition 01\_HOOFD\_510\_2

Sum = 2.0

Metric = 2.0

SEQUENCE sink 75

Removed place sink 75

Added arc from 01\_HOOFD\_510\_1 to source 79

Added arc from 01\_HOOFD\_510\_1 to source 77

Removed transition tau split

Sum = 3.0

Metric = 3.0

SEQUENCE sink 76

Removed place sink 76

Added arc from tau join to sink 81

Removed transition 01\_HOOFD\_510\_3

Sum = 2.0

Metric = 2.0

SEQUENCE sink 81

Removed place sink 81

Added arc from tau join to sink 82

Removed transition 01\_HOOFD\_515

Sum = 3.0

Metric = 3.0

SEQUENCE sink 82

Removed place sink 82

Added arc from tau join to sink 2

Removed transition END

Sum = 4.0

Metric = 4.0

CHOICE 01\_HOOFD\_020

Removed transition 05\_EIND\_010

Sum = 2.0

Metric = 3.0

SEQUENCE sink 7

Removed place sink 7

Added arc from START to sink 8

Removed transition 01\_HOOFD\_020

Sum = 8.0

Metric = 8.0

SEQUENCE sink 8

Removed place sink 8

Added arc from START to childSource 15

Added arc from START to childSource 12

Added arc from START to notDoneFirst 10

Removed transition tau start

Sum = 9.0

Metric = 9.0

CHOICE 01\_HOOFD\_250\_2

Removed transition 01\_HOOFD\_250

Sum = 3.0

Metric = 4.5

SEQUENCE sink 53

Removed place sink 53

Added arc from 01\_HOOFD\_180 to sink 54

Removed transition 01\_HOOFD\_250\_2

Sum = 10.5

Metric = 10.5

SEQUENCE sink 54

Removed place sink 54

Added arc from 01\_HOOFD\_180 to sink 67

Removed transition 01\_HOOFD\_330

Sum = 22.5

Metric = 22.5

CHOICE 01\_HOOFD\_490\_5

Removed transition 01\_HOOFD\_490\_5a

Sum = 2.0

Metric = 3.0

SEQUENCE sink 67

Removed place sink 67

Added arc from 01\_HOOFD\_180 to sink 68

Removed transition 01\_HOOFD\_490\_5

Sum = 25.5

Metric = 25.5

SEQUENCE sink 68

Removed place sink 68

Added arc from 01\_HOOFD\_180 to sink 72

Removed transition 01\_HOOFD\_491

Sum = 29.5

Metric = 29.5

CHOICE 01\_HOOFD\_510\_0

Removed transition 01\_HOOFD\_490\_3

Sum = 2.0

Metric = 3.0

SEQUENCE sink 72

Removed place sink 72

Added arc from 01\_HOOFD\_180 to sink 73

Removed transition 01\_HOOFD\_510\_0

Sum = 32.5

Metric = 32.5

SEQUENCE sink 73

Removed place sink 73

Added arc from 01\_HOOFD\_180 to source 79

Added arc from 01\_HOOFD\_180 to source 77

Removed transition 01\_HOOFD\_510\_1

Sum = 35.5

Metric = 35.5

CHOICE 01\_HOOFD\_510\_4

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

MARKED GRAPH 01\_HOOFD\_180 -> tau join

Sum = 87.0

DiffT = 1

Added arc from 01\_HOOFD\_180 to sink 2

Removed transition 01\_HOOFD\_510\_3

Removed place source 77

Removed transition tau join

Removed transition 01\_HOOFD\_510\_4

Removed place sink 78

Removed place source 79

Removed place sink 80

Metric = 87.0

UNSTRUCTURED source 1 -> sink 30

In place childSink 16

Out transition tau laterDoChild

In transition tau laterDoChild

Out place childSource 15

Out place childSource 24

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 doneFirst 11

In place doneFirst 11

In place doChild 26

In place childSink 13

In place childSink 25

Out place notDoneFirst 10

Out place sink 30

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 notDoneFirst 19

In place doChild 23

Out transition START

Out transition tau firstDoChild

In transition tau firstDoChild

Out transition tau finish

In transition tau finish

Out place childSource 21

Out transition tau laterDoChild

In transition tau laterDoChild

In place doChild 14

Out place childSource 12

Out place doneFirst 20

In place doneFirst 20

In transition tau finish

Out transition tau firstDoChild

In transition tau firstDoChild

In place childSink 22

In place doChild 17

Out transition tau skipChild

In transition tau skipChild

Out transition tau firstDoChild

In transition tau firstDoChild

|F| = 70

|P U T| = 37

Sum = 5440.0

DiffP = 2

DiffT = 1

Added arc from START to sink 30

Removed place childSink 16

Removed transition tau laterDoChild

Removed place childSource 15

Removed place childSource 24

Removed transition tau skipChild

Removed transition 01\_HOOFD\_030\_1

Removed transition tau laterDoChild

Removed transition tau skipChild

Removed place doneFirst 11

Removed place doChild 26

Removed place childSink 13

Removed place childSink 25

Removed transition 03\_GBH\_005

Removed place notDoneFirst 10

Removed transition tau laterDoChild

Removed transition tau skipChild

Removed transition tau firstDoChild

Removed transition 01\_HOOFD\_065\_0

Removed transition 01\_HOOFD\_030\_2

Removed place notDoneFirst 19

Removed place doChild 23

Removed transition tau firstDoChild

Removed transition tau finish

Removed place childSource 21

Removed transition tau laterDoChild

Removed place doChild 14

Removed place childSource 12

Removed place doneFirst 20

Removed transition tau finish

Removed transition tau firstDoChild

Removed place childSink 22

Removed place doChild 17

Removed transition tau skipChild

Removed transition tau firstDoChild

Metric = 10880.0

UNSTRUCTURED sink 30 -> sink 31

Out transition tau skipChild

In transition tau skipChild

Out transition tau start

Out transition tau skipChild

In transition tau skipChild

In transition tau finish

Out place notDoneFirst 37

In place doChild 41

Out transition tau laterDoChild

In transition tau laterDoChild

Out place childSource 34

Out transition tau firstDoChild

In transition tau firstDoChild

Out place childSource 39

Out place doneFirst 38

In place doneFirst 38

Out transition tau skipChild

In transition tau skipChild

Out place childSource 45

In place childSink 46

Out transition tau firstDoChild

In transition tau firstDoChild

Out transition tau laterDoChild

In transition tau laterDoChild

Out place sink 30

In place sink 31

Out place childSource 42

Out transition tau laterDoChild

In transition tau laterDoChild

In place doChild 47

Out place notDoneFirst 32

In place childSink 35

Out transition tau skipChild

In transition tau skipChild

In place doChild 36

Out transition tau start

In transition tau finish

Out place doneFirst 33

In place doneFirst 33

Out transition tau firstDoChild

In transition tau firstDoChild

Out transition tau firstDoChild

In transition tau firstDoChild

In place childSink 40

In place doChild 44

Out transition tau laterDoChild

In transition tau laterDoChild

In place childSink 43

|F| = 72

|P U T| = 38

Sum = 3500.0

DiffP = 3

DiffT = 1

Added arc from tau start to sink 31

Removed transition tau skipChild

Removed transition tau skipChild

Removed transition 01\_HOOFD\_065\_2

Removed transition tau finish

Removed place notDoneFirst 37

Removed place doChild 41

Removed transition tau laterDoChild

Removed place childSource 34

Removed transition tau firstDoChild

Removed place childSource 39

Removed place doneFirst 38

Removed transition tau skipChild

Removed place childSource 45

Removed transition 01\_HOOFD\_110\_0

Removed place childSink 46

Removed transition tau firstDoChild

Removed transition tau laterDoChild

Removed transition 01\_HOOFD\_040

Removed place childSource 42

Removed transition tau laterDoChild

Removed place doChild 47

Removed place notDoneFirst 32

Removed place childSink 35

Removed transition tau skipChild

Removed place doChild 36

Removed transition tau start

Removed transition tau finish

Removed place doneFirst 33

Removed transition 01\_HOOFD\_050

Removed transition tau firstDoChild

Removed transition tau firstDoChild

Removed place childSink 40

Removed place doChild 44

Removed transition tau laterDoChild

Removed place childSink 43

Metric = 10500.0

SEQUENCE sink 30

Removed place sink 30

Added arc from START to sink 31

Removed transition tau start

Sum = 21380.0

Metric = 21380.0

SEQUENCE sink 31

Removed place sink 31

Added arc from START to sink 2

Removed transition 01\_HOOFD\_180

Sum = 21467.0

Metric = 21467.0