**Metrics for net Petri net**

**Density metric**

0.019067796610169493

**Details**

|F| = 144

|P X T| = 3776

**Extended Cardoso metric**

66.0

**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 = 2

Place sink 14 = 1

Place notDoneFirst 15 = 2

Place doneFirst 16 = 5

Place childSource 17 = 2

Place childSink 18 = 1

Place doChild 19 = 1

Place sink 20 = 1

Place childSource 21 = 2

Place childSink 22 = 1

Place doChild 23 = 1

Place sink 24 = 1

Place sink 25 = 1

Place sink 26 = 1

Place sink 27 = 1

Place sink 28 = 1

Place sink 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

Metric = 66

**Extended Cyclomatic metric**

84.0

**Details**

|E| = 84

|V| = 65

p = 65

**Number of arcs**

144.0

**Details**

**Number of places**

59.0

**Details**

**Number of transitions**

64.0

**Details**

**Structuredness metric**

2395.0

**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 6

Removed place sink 6

Added arc from 01\_HOOFD\_015 to sink 7

Removed transition 01\_HOOFD\_020

Sum = 2.0

Metric = 2.0

SEQUENCE sink 7

Removed place sink 7

Added arc from 01\_HOOFD\_015 to sink 8

Removed transition 01\_HOOFD\_030\_1

Sum = 3.0

Metric = 3.0

SEQUENCE sink 8

Removed place sink 8

Added arc from 01\_HOOFD\_015 to sink 9

Removed transition 02\_DRZ\_010

Sum = 4.0

Metric = 4.0

SEQUENCE sink 9

Removed place sink 9

Added arc from 01\_HOOFD\_015 to sink 10

Removed transition 03\_GBH\_005

Sum = 5.0

Metric = 5.0

SEQUENCE sink 10

Removed place sink 10

Added arc from 01\_HOOFD\_015 to sink 11

Removed transition 05\_EIND\_010

Sum = 6.0

Metric = 6.0

SEQUENCE sink 11

Removed place sink 11

Added arc from 01\_HOOFD\_015 to sink 12

Removed transition 16\_LGSV\_010

Sum = 7.0

Metric = 7.0

SEQUENCE sink 12

Removed place sink 12

Added arc from 01\_HOOFD\_015 to sink 13

Removed transition 01\_HOOFD\_030\_2

Sum = 8.0

Metric = 8.0

SEQUENCE sink 20

Removed place sink 20

Added arc from 01\_HOOFD\_065\_1 to childSink 18

Removed transition 01\_HOOFD\_065\_2

Sum = 2.0

Metric = 2.0

SEQUENCE sink 24

Removed place sink 24

Added arc from 02\_DRZ\_010 to childSink 22

Removed transition 01\_HOOFD\_061

Sum = 2.0

Metric = 2.0

SEQUENCE sink 27

Removed place sink 27

Added arc from 01\_HOOFD\_180 to sink 28

Removed transition 01\_HOOFD\_195

Sum = 2.0

Metric = 2.0

SEQUENCE sink 28

Removed place sink 28

Added arc from 01\_HOOFD\_180 to sink 29

Removed transition 01\_HOOFD\_200

Sum = 3.0

Metric = 3.0

SEQUENCE sink 29

Removed place sink 29

Added arc from 01\_HOOFD\_180 to sink 30

Removed transition 01\_HOOFD\_250\_1

Sum = 4.0

Metric = 4.0

SEQUENCE sink 30

Removed place sink 30

Added arc from 01\_HOOFD\_180 to sink 31

Removed transition 01\_HOOFD\_250\_2

Sum = 5.0

Metric = 5.0

SEQUENCE sink 31

Removed place sink 31

Added arc from 01\_HOOFD\_180 to sink 32

Removed transition 01\_HOOFD\_330

Sum = 6.0

Metric = 6.0

SEQUENCE sink 32

Removed place sink 32

Added arc from 01\_HOOFD\_180 to sink 33

Removed transition 01\_HOOFD\_370

Sum = 7.0

Metric = 7.0

SEQUENCE sink 33

Removed place sink 33

Added arc from 01\_HOOFD\_180 to sink 34

Removed transition 01\_HOOFD\_375

Sum = 8.0

Metric = 8.0

SEQUENCE sink 34

Removed place sink 34

Added arc from 01\_HOOFD\_180 to sink 35

Removed transition 01\_HOOFD\_380

Sum = 9.0

Metric = 9.0

SEQUENCE sink 35

Removed place sink 35

Added arc from 01\_HOOFD\_180 to sink 36

Removed transition 01\_HOOFD\_430

Sum = 10.0

Metric = 10.0

SEQUENCE sink 36

Removed place sink 36

Added arc from 01\_HOOFD\_180 to sink 37

Removed transition 01\_HOOFD\_480

Sum = 11.0

Metric = 11.0

SEQUENCE sink 37

Removed place sink 37

Added arc from 01\_HOOFD\_180 to sink 38

Removed transition 01\_HOOFD\_490\_1

Sum = 12.0

Metric = 12.0

SEQUENCE sink 38

Removed place sink 38

Added arc from 01\_HOOFD\_180 to sink 39

Removed transition 01\_HOOFD\_490\_1a

Sum = 13.0

Metric = 13.0

SEQUENCE sink 39

Removed place sink 39

Added arc from 01\_HOOFD\_180 to sink 40

Removed transition 01\_HOOFD\_490\_2

Sum = 14.0

Metric = 14.0

SEQUENCE sink 40

Removed place sink 40

Added arc from 01\_HOOFD\_180 to sink 41

Removed transition 08\_AWB45\_005

Sum = 15.0

Metric = 15.0

SEQUENCE sink 41

Removed place sink 41

Added arc from 01\_HOOFD\_180 to sink 42

Removed transition 09\_AH\_I\_010

Sum = 16.0

Metric = 16.0

SEQUENCE sink 44

Removed place sink 44

Added arc from 13\_CRD\_010 to sink 45

Removed transition 14\_VRIJ\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 45

Removed place sink 45

Added arc from 13\_CRD\_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 13\_CRD\_010 to sink 47

Removed transition 01\_HOOFD\_490\_5

Sum = 4.0

Metric = 4.0

SEQUENCE sink 47

Removed place sink 47

Added arc from 13\_CRD\_010 to sink 48

Removed transition 01\_HOOFD\_490\_5a

Sum = 5.0

Metric = 5.0

SEQUENCE sink 48

Removed place sink 48

Added arc from 13\_CRD\_010 to sink 49

Removed transition 01\_HOOFD\_491

Sum = 6.0

Metric = 6.0

SEQUENCE sink 49

Removed place sink 49

Added arc from 13\_CRD\_010 to sink 50

Removed transition 01\_HOOFD\_494a

Sum = 7.0

Metric = 7.0

SEQUENCE sink 50

Removed place sink 50

Added arc from 13\_CRD\_010 to sink 51

Removed transition 01\_HOOFD\_495

Sum = 8.0

Metric = 8.0

SEQUENCE sink 51

Removed place sink 51

Added arc from 13\_CRD\_010 to sink 52

Removed transition 01\_HOOFD\_500

Sum = 9.0

Metric = 9.0

SEQUENCE sink 52

Removed place sink 52

Added arc from 13\_CRD\_010 to sink 53

Removed transition 01\_HOOFD\_510\_0

Sum = 10.0

Metric = 10.0

SEQUENCE sink 53

Removed place sink 53

Added arc from 13\_CRD\_010 to sink 54

Removed transition 01\_HOOFD\_510\_1

Sum = 11.0

Metric = 11.0

SEQUENCE sink 56

Removed place sink 56

Added arc from 01\_HOOFD\_510\_2a to sink 57

Removed transition 01\_HOOFD\_510\_3

Sum = 2.0

Metric = 2.0

SEQUENCE sink 57

Removed place sink 57

Added arc from 01\_HOOFD\_510\_2a to sink 58

Removed transition 01\_HOOFD\_510\_4

Sum = 3.0

Metric = 3.0

SEQUENCE sink 58

Removed place sink 58

Added arc from 01\_HOOFD\_510\_2a to sink 59

Removed transition 01\_HOOFD\_515

Sum = 4.0

Metric = 4.0

SEQUENCE sink 59

Removed place sink 59

Added arc from 01\_HOOFD\_510\_2a to sink 2

Removed transition END

Sum = 5.0

Metric = 5.0

CHOICE 01\_HOOFD\_011

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 4

Removed place sink 4

Added arc from START to sink 5

Removed transition 01\_HOOFD\_011

Sum = 5.0

Metric = 5.0

SEQUENCE sink 5

Removed place sink 5

Added arc from START to sink 13

Removed transition 01\_HOOFD\_015

Sum = 13.0

Metric = 13.0

CHOICE 01\_HOOFD\_110\_2

Removed transition 01\_HOOFD\_110

Sum = 2.0

Metric = 3.0

SEQUENCE sink 25

Removed place sink 25

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

Removed transition 01\_HOOFD\_110\_2

Sum = 4.0

Metric = 4.0

SEQUENCE sink 26

Removed place sink 26

Added arc from 01\_HOOFD\_110\_1 to sink 42

Removed transition 01\_HOOFD\_180

Sum = 20.0

Metric = 20.0

CHOICE 11\_AH\_II\_010

Removed transition tau from tree

Sum = 2.0

Metric = 3.0

SEQUENCE sink 42

Removed place sink 42

Added arc from 01\_HOOFD\_110\_1 to sink 43

Removed transition 11\_AH\_II\_010

Sum = 23.0

Metric = 23.0

SEQUENCE sink 43

Removed place sink 43

Added arc from 01\_HOOFD\_110\_1 to sink 54

Removed transition 13\_CRD\_010

Sum = 34.0

Metric = 34.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_2

Sum = 2.0

Metric = 3.0

SEQUENCE sink 54

Removed place sink 54

Added arc from 01\_HOOFD\_110\_1 to sink 55

Removed transition tau from tree

Sum = 37.0

Metric = 37.0

SEQUENCE sink 55

Removed place sink 55

Added arc from 01\_HOOFD\_110\_1 to sink 2

Removed transition 01\_HOOFD\_510\_2a

Sum = 42.0

Metric = 42.0

UNSTRUCTURED sink 13 -> sink 14

Out place doneFirst 16

In place doneFirst 16

Out place childSource 17

Out transition tau firstDoChild

In transition tau firstDoChild

Out transition tau laterDoChild

In transition tau laterDoChild

Out transition tau skipChild

In transition tau skipChild

Out place childSource 21

Out transition tau laterDoChild

In transition tau laterDoChild

Out transition tau firstDoChild

In transition tau firstDoChild

In place doChild 19

Out transition tau skipChild

In transition tau skipChild

Out transition tau start

In place doChild 23

In place childSink 18

Out place sink 13

In place childSink 22

In transition tau finish

In place sink 14

Out place notDoneFirst 15

|F| = 38

|P U T| = 21

Sum = 1170.0

DiffP = 2

DiffT = 1

Added arc from 01\_HOOFD\_110\_0 to sink 14

Removed transition 02\_DRZ\_010

Removed place doneFirst 16

Removed transition 01\_HOOFD\_065\_1

Removed place childSource 17

Removed transition tau firstDoChild

Removed transition tau laterDoChild

Removed transition tau skipChild

Removed place childSource 21

Removed transition tau laterDoChild

Removed transition tau firstDoChild

Removed place doChild 19

Removed transition tau skipChild

Removed transition tau start

Removed place doChild 23

Removed place childSink 18

Removed place childSink 22

Removed transition tau finish

Removed place notDoneFirst 15

Metric = 2340.0

SEQUENCE sink 13

Removed place sink 13

Added arc from START to sink 14

Removed transition 01\_HOOFD\_110\_0

Sum = 2353.0

Metric = 2353.0

SEQUENCE sink 14

Removed place sink 14

Added arc from START to sink 2

Removed transition 01\_HOOFD\_110\_1

Sum = 2395.0

Metric = 2395.0