**Metrics for net Petri net**

**Density metric**

0.006771705333652236

**Details**

|F| = 453

|P X T| = 33448

**Extended Cardoso metric**

226.0

**Details**

Place pi44 = 1

Place po44 = 1

Place pi45 = 1

Place po45 = 4

Place pi46 = 1

Place po46 = 4

Place pi47 = 1

Place po47 = 1

Place pi48 = 1

Place po48 = 2

Place pi49 = 1

Place po49 = 1

Place pi50 = 1

Place po50 = 4

Place pi51 = 1

Place po51 = 1

Place pi52 = 1

Place po52 = 2

Place pi53 = 1

Place po53 = 3

Place pi10 = 1

Place po10 = 1

Place pi54 = 1

Place po54 = 1

Place pi11 = 1

Place po11 = 2

Place pi55 = 1

Place po55 = 1

Place pi56 = 1

Place po56 = 2

Place pi12 = 1

Place po12 = 2

Place pi57 = 1

Place po57 = 3

Place pi13 = 1

Place po13 = 2

Place pi58 = 1

Place po58 = 3

Place pi14 = 1

Place po14 = 3

Place pi15 = 1

Place po15 = 1

Place pi59 = 1

Place po59 = 4

Place pi16 = 1

Place po16 = 1

Place pi17 = 1

Place po17 = 2

Place pi18 = 1

Place po18 = 1

Place pi19 = 1

Place po19 = 1

Place pi0 = 1

Place po0 = 2

Place pi1 = 1

Place po1 = 3

Place pi2 = 1

Place po2 = 3

Place pi3 = 1

Place po3 = 1

Place pi4 = 1

Place po4 = 1

Place pi5 = 1

Place po5 = 2

Place pi6 = 1

Place po6 = 3

Place pi7 = 1

Place po7 = 5

Place pi8 = 1

Place po8 = 1

Place pi9 = 1

Place po9 = 2

Place pi60 = 1

Place po60 = 2

Place pi61 = 1

Place po61 = 1

Place pi62 = 1

Place po62 = 4

Place pi63 = 1

Place po63 = 1

Place pi64 = 1

Place po64 = 3

Place pi20 = 1

Place po20 = 1

Place pi21 = 1

Place po21 = 3

Place pi65 = 1

Place po65 = 2

Place pi22 = 1

Place po22 = 1

Place pi66 = 1

Place po66 = 3

Place pi23 = 1

Place po23 = 3

Place pi67 = 1

Place po67 = 1

Place pi68 = 1

Place po68 = 3

Place pi24 = 1

Place po24 = 1

Place pi25 = 1

Place po25 = 1

Place pi69 = 1

Place po69 = 3

Place pi26 = 1

Place po26 = 1

Place pi27 = 1

Place po27 = 1

Place pi28 = 1

Place po28 = 2

Place pi29 = 1

Place po29 = 1

Place pi70 = 1

Place po70 = 5

Place pi71 = 1

Place po71 = 2

Place pi72 = 1

Place po72 = 0

Place pi73 = 1

Place po73 = 1

Place pi30 = 1

Place po30 = 1

Place pi31 = 1

Place po31 = 1

Place pi32 = 1

Place po32 = 1

Place pi33 = 1

Place po33 = 2

Place pi34 = 1

Place po34 = 3

Place pi35 = 1

Place po35 = 1

Place pi36 = 1

Place po36 = 4

Place pi37 = 1

Place po37 = 3

Place pi38 = 1

Place po38 = 3

Place pi39 = 1

Place po39 = 2

Place pi40 = 1

Place po40 = 3

Place pi41 = 1

Place po41 = 2

Place pi42 = 1

Place po42 = 2

Place pi43 = 1

Place po43 = 2

Metric = 226

**Extended Cyclomatic metric**

7446.0

**Details**

|E| = 10002

|V| = 3798

p = 1242

**Number of arcs**

453.0

**Details**

**Number of places**

148.0

**Details**

**Number of transitions**

226.0

**Details**

**Structuredness metric**

576844.0

**Details**

SEQUENCE pi44

Removed place pi44

Added arc from tau to po44

Removed transition 01\_HOOFD\_510\_0

Sum = 2.0

Metric = 2.0

SEQUENCE po44

Removed place po44

Added arc from tau to pi45

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po47

Removed place po47

Added arc from 01\_HOOFD\_510\_2a to pi48

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi49

Removed place pi49

Added arc from tau to po49

Removed transition 01\_HOOFD\_510\_4

Sum = 2.0

Metric = 2.0

SEQUENCE po49

Removed place po49

Added arc from tau to pi50

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po51

Removed place po51

Added arc from 01\_HOOFD\_520 to pi52

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi52

Removed place pi52

Added arc from 01\_HOOFD\_520 to po52

Removed transition 01\_HOOFD\_530

Sum = 3.0

Metric = 3.0

SEQUENCE pi10

Removed place pi10

Added arc from tau to po10

Removed transition 01\_HOOFD\_060

Sum = 2.0

Metric = 2.0

SEQUENCE po10

Removed place po10

Added arc from tau to pi70

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po54

Removed place po54

Added arc from 01\_HOOFD\_814 to pi55

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi55

Removed place pi55

Added arc from 01\_HOOFD\_814 to po55

Removed transition 01\_HOOFD\_815

Sum = 3.0

Metric = 3.0

SEQUENCE po55

Removed place po55

Added arc from 01\_HOOFD\_814 to pi56

Removed transition tau

Sum = 4.0

Metric = 4.0

SEQUENCE pi12

Removed place pi12

Added arc from tau to po12

Removed transition 01\_HOOFD\_065\_0

Sum = 2.0

Metric = 2.0

SEQUENCE pi14

Removed place pi14

Added arc from tau to po14

Removed transition 01\_HOOFD\_065\_2

Sum = 2.0

Metric = 2.0

SEQUENCE pi15

Removed place pi15

Added arc from tau to po15

Removed transition 01\_HOOFD\_100

Sum = 2.0

Metric = 2.0

SEQUENCE po15

Removed place po15

Added arc from tau to pi16

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po16

Removed place po16

Added arc from 01\_HOOFD\_110 to pi20

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE po18

Removed place po18

Added arc from 01\_HOOFD\_110\_1 to pi19

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi19

Removed place pi19

Added arc from 01\_HOOFD\_110\_1 to po19

Removed transition 01\_HOOFD\_110\_2

Sum = 3.0

Metric = 3.0

SEQUENCE po19

Removed place po19

Added arc from 01\_HOOFD\_110\_1 to pi21

Removed transition tau

Sum = 4.0

Metric = 4.0

SEQUENCE pi2

Removed place pi2

Added arc from tau to po2

Removed transition 01\_HOOFD\_010

Sum = 2.0

Metric = 2.0

SEQUENCE po3

Removed place po3

Added arc from 01\_HOOFD\_011 to pi4

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE po4

Removed place po4

Added arc from 01\_HOOFD\_015 to pi5

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi5

Removed place pi5

Added arc from 01\_HOOFD\_015 to po5

Removed transition 01\_HOOFD\_020

Sum = 3.0

Metric = 3.0

SEQUENCE pi8

Removed place pi8

Added arc from tau to po8

Removed transition 01\_HOOFD\_040

Sum = 2.0

Metric = 2.0

SEQUENCE po8

Removed place po8

Added arc from tau to pi9

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE pi61

Removed place pi61

Added arc from tau to po61

Removed transition 06\_VD\_010

Sum = 2.0

Metric = 2.0

SEQUENCE po61

Removed place po61

Added arc from tau to pi16

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po63

Removed place po63

Added arc from 08\_AWB45\_010 to pi64

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi64

Removed place pi64

Added arc from 08\_AWB45\_010 to po64

Removed transition 08\_AWB45\_020\_1

Sum = 3.0

Metric = 3.0

SEQUENCE pi20

Removed place pi20

Added arc from 01\_HOOFD\_110 to po20

Removed transition 01\_HOOFD\_120

Sum = 3.0

Metric = 3.0

SEQUENCE po20

Removed place po20

Added arc from 01\_HOOFD\_110 to pi21

Removed transition tau

Sum = 4.0

Metric = 4.0

SEQUENCE po22

Removed place po22

Added arc from 01\_HOOFD\_195 to pi23

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi23

Removed place pi23

Added arc from 01\_HOOFD\_195 to po23

Removed transition 01\_HOOFD\_200

Sum = 3.0

Metric = 3.0

SEQUENCE po67

Removed place po67

Added arc from 09\_AH\_I\_010 to pi68

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi68

Removed place pi68

Added arc from 09\_AH\_I\_010 to po68

Removed transition 11\_AH\_II\_010

Sum = 3.0

Metric = 3.0

SEQUENCE pi24

Removed place pi24

Added arc from tau to po24

Removed transition 01\_HOOFD\_250

Sum = 2.0

Metric = 2.0

SEQUENCE po24

Removed place po24

Added arc from tau to pi27

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po25

Removed place po25

Added arc from 01\_HOOFD\_250\_1 to pi26

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi69

Removed place pi69

Added arc from tau to po69

Removed transition 13\_CRD\_010

Sum = 2.0

Metric = 2.0

SEQUENCE pi26

Removed place pi26

Added arc from 01\_HOOFD\_250\_1 to po26

Removed transition 01\_HOOFD\_250\_2

Sum = 3.0

Metric = 3.0

SEQUENCE po26

Removed place po26

Added arc from 01\_HOOFD\_250\_1 to pi28

Removed transition tau

Sum = 4.0

Metric = 4.0

SEQUENCE pi27

Removed place pi27

Added arc from tau to po27

Removed transition 01\_HOOFD\_260

Sum = 4.0

Metric = 4.0

SEQUENCE po27

Removed place po27

Added arc from tau to pi28

Removed transition tau

Sum = 5.0

Metric = 5.0

SEQUENCE pi29

Removed place pi29

Added arc from tau to po29

Removed transition 01\_HOOFD\_370

Sum = 2.0

Metric = 2.0

SEQUENCE po29

Removed place po29

Added arc from tau to pi30

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po73

Removed place po73

Added arc from START to po2

Removed transition tau

Sum = 3.0

Metric = 3.0

SEQUENCE po30

Removed place po30

Added arc from 01\_HOOFD\_375 to pi31

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi31

Removed place pi31

Added arc from 01\_HOOFD\_375 to po31

Removed transition 01\_HOOFD\_380

Sum = 3.0

Metric = 3.0

SEQUENCE po31

Removed place po31

Added arc from 01\_HOOFD\_375 to pi32

Removed transition tau

Sum = 4.0

Metric = 4.0

SEQUENCE pi32

Removed place pi32

Added arc from 01\_HOOFD\_375 to po32

Removed transition 01\_HOOFD\_430

Sum = 5.0

Metric = 5.0

SEQUENCE po32

Removed place po32

Added arc from 01\_HOOFD\_375 to pi33

Removed transition tau

Sum = 6.0

Metric = 6.0

SEQUENCE pi33

Removed place pi33

Added arc from 01\_HOOFD\_375 to po33

Removed transition 01\_HOOFD\_480

Sum = 7.0

Metric = 7.0

SEQUENCE po35

Removed place po35

Added arc from 01\_HOOFD\_490\_1a to pi36

Removed transition tau

Sum = 2.0

Metric = 2.0

SEQUENCE pi41

Removed place pi41

Added arc from tau to po41

Removed transition 01\_HOOFD\_494a

Sum = 2.0

Metric = 2.0

SEQUENCE pi43

Removed place pi43

Added arc from tau to po43

Removed transition 01\_HOOFD\_500

Sum = 2.0

Metric = 2.0

CHOICE tau

Removed transition tau

Sum = 4.0

Metric = 6.0

SEQUENCE po48

Removed place po48

Added arc from 01\_HOOFD\_510\_3 to pi50

Removed transition tau

Sum = 7.0

Metric = 7.0

SEQUENCE pi50

Removed place pi50

Added arc from 01\_HOOFD\_510\_3 to po50

Removed transition 01\_HOOFD\_515

Sum = 8.0

Metric = 8.0

CHOICE tau

Removed transition tau

Sum = 4.0

Metric = 6.0

SEQUENCE po28

Removed place po28

Added arc from 01\_HOOFD\_330 to pi30

Removed transition tau

Sum = 7.0

Metric = 7.0

SEQUENCE pi30

Removed place pi30

Added arc from 01\_HOOFD\_330 to po33

Removed transition 01\_HOOFD\_375

Sum = 14.0

Metric = 14.0

STATE MACHINE pi42 -> po45

Sum = 18.0

DiffP = 2

Added arc from 01\_HOOFD\_495 to po45

Removed transition tau

Removed place pi45

Removed transition 01\_HOOFD\_510\_1

Removed transition tau

Removed place po42

Removed transition tau

Removed transition tau

Removed place po43

Metric = 36.0

UNSTRUCTURED po2 -> pi72

Out place po59

In place pi34

Out place po11

Out place po34

In place pi4

Out place po66

In place pi48

Out place po60

Out place po62

In place pi53

In place pi18

Out place po41

Out place po57

Out place po21

Out place po0

In place pi37

In place pi56

Out place po9

In place pi40

In place pi54

Out place po1

In place pi11

In place pi71

In place pi7

In place pi60

Out place po12

In place pi16

Out place po70

Out place po13

Out place po36

Out place po69

Out place po53

In place pi21

In place pi57

Out place po7

In place pi17

In place pi70

Out place po38

Out place po64

Out place po33

Out place po46

Out place po5

In place pi1

Out place po6

In place pi63

Out place po39

Out place po65

In place pi72

Out place po23

In place pi6

In place pi46

In place pi59

Out place po50

In place pi13

Out place po17

In place pi28

In place pi39

Out place po71

Out place po2

In place pi25

In place pi35

Out place po58

Out place po14

In place pi58

Out place po40

In place pi38

In place pi42

Out place po45

In place pi65

In place pi0

In place pi47

Out place po68

Out place po37

In place pi36

Out transition tau

In place pi22

Out place po56

In place pi66

In place pi9

Out place po52

In place pi51

In place pi62

In place pi67

|F| = 315

|P U T| = 240

Sum = 96140.0

DiffP = 3

DiffT = 2

Added arc from tau to pi72

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition 01\_HOOFD\_510\_2a

Removed transition tau

Removed transition 01\_HOOFD\_050

Removed place po59

Removed place pi34

Removed place po11

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition 08\_AWB45\_030

Removed transition 01\_HOOFD\_490\_1a

Removed transition tau

Removed place po34

Removed transition tau

Removed transition 01\_HOOFD\_110

Removed transition tau

Removed place pi4

Removed transition tau

Removed transition tau

Removed transition 01\_BB\_540

Removed transition 01\_HOOFD\_011

Removed place po66

Removed place pi48

Removed place po60

Removed place po62

Removed transition tau

Removed transition tau

Removed place pi53

Removed transition 01\_HOOFD\_814

Removed place pi18

Removed place po41

Removed place po57

Removed place po21

Removed transition tau

Removed transition tau

Removed place po0

Removed transition tau

Removed place pi37

Removed place pi56

Removed transition tau

Removed place po9

Removed transition 08\_AWB45\_020\_2

Removed place pi40

Removed transition 01\_HOOFD\_030\_2

Removed transition tau

Removed transition tau

Removed place pi54

Removed transition tau

Removed transition 01\_HOOFD\_490\_2

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition 04\_BPT\_005

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition 01\_HOOFD\_820

Removed place po1

Removed place pi11

Removed place pi71

Removed transition tau

Removed transition tau

Removed place pi7

Removed transition tau

Removed transition tau

Removed place pi60

Removed place po12

Removed place pi16

Removed transition 09\_AH\_I\_010

Removed transition tau

Removed transition 01\_HOOFD\_030\_1

Removed transition tau

Removed place po70

Removed place po13

Removed transition tau

Removed place po36

Removed transition tau

Removed place po69

Removed place po53

Removed transition tau

Removed place pi3

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition 02\_DRZ\_010

Removed transition 14\_VRIJ\_010

Removed place pi21

Removed transition tau

Removed transition tau

Removed place pi57

Removed transition 01\_HOOFD\_065\_1

Removed place po7

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed place pi17

Removed place pi70

Removed transition tau

Removed transition 01\_HOOFD\_195

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed place po38

Removed transition tau

Removed transition tau

Removed place po64

Removed transition tau

Removed transition tau

Removed place po33

Removed place po46

Removed place po5

Removed place pi1

Removed transition tau

Removed place po6

Removed place pi63

Removed transition tau

Removed transition 01\_HOOFD\_490\_5

Removed transition tau

Removed place po39

Removed transition tau

Removed place po65

Removed transition tau

Removed place po23

Removed transition tau

Removed place pi6

Removed transition 01\_HOOFD\_490\_5a

Removed place pi46

Removed transition tau

Removed place pi59

Removed place po50

Removed place pi13

Removed transition tau

Removed transition tau

Removed place po17

Removed transition tau

Removed transition tau

Removed place pi28

Removed transition 01\_HOOFD\_110\_0

Removed transition tau

Removed transition 08\_AWB45\_005

Removed transition tau

Removed place pi39

Removed place po71

Removed place pi25

Removed place pi35

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed place po58

Removed transition 01\_HOOFD\_180

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition 03\_GBH\_005

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed place po14

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed place pi58

Removed place po40

Removed place pi38

Removed transition tau

Removed transition tau

Removed place pi42

Removed transition tau

Removed place po45

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed place pi65

Removed transition tau

Removed transition 08\_AWB45\_010

Removed place pi0

Removed transition 01\_HOOFD\_330

Removed transition 01\_HOOFD\_495

Removed place pi47

Removed transition tau

Removed transition tau

Removed transition tau

Removed place po68

Removed transition 01\_HOOFD\_510\_3

Removed transition 01\_HOOFD\_061

Removed place po37

Removed transition tau

Removed transition tau

Removed place pi36

Removed transition tau

Removed place pi22

Removed transition 05\_EIND\_010

Removed transition tau

Removed transition 01\_HOOFD\_491

Removed transition tau

Removed transition 01\_HOOFD\_490\_4

Removed place po56

Removed place pi66

Removed place pi9

Removed transition tau

Removed transition tau

Removed transition 16\_LGSV\_010

Removed place po52

Removed transition tau

Removed transition tau

Removed transition tau

Removed transition tau

Removed place pi51

Removed transition tau

Removed transition 01\_HOOFD\_510\_2

Removed transition 01\_HOOFD\_810

Removed transition 01\_HOOFD\_520

Removed transition 01\_HOOFD\_015

Removed place pi62

Removed transition tau

Removed place pi67

Removed transition tau

Removed transition 01\_BB\_770

Removed transition tau

Removed transition 01\_HOOFD\_110\_1

Removed transition 01\_HOOFD\_490\_1

Removed transition 01\_HOOFD\_250\_1

Metric = 576840.0

SEQUENCE po2

Removed place po2

Added arc from START to pi72

Removed transition tau

Sum = 576843.0

Metric = 576843.0

SEQUENCE pi72

Removed place pi72

Added arc from START to po72

Removed transition END

Sum = 576844.0

Metric = 576844.0