**Metrics for net Petri net**

**Density metric**

0.03182569674067076

**Details**

|F| = 539

|P X T| = 8468

**Extended Cardoso metric**

288.0

**Details**

Place place\_0 = 3

Place place\_1 = 6

Place place\_2 = 3

Place place\_3 = 1

Place place\_4 = 3

Place place\_5 = 2

Place place\_6 = 2

Place place\_7 = 1

Place place\_8 = 2

Place place\_9 = 2

Place place\_10 = 5

Place place\_11 = 1

Place place\_12 = 4

Place place\_13 = 4

Place place\_14 = 2

Place place\_15 = 4

Place place\_16 = 1

Place place\_17 = 1

Place place\_18 = 2

Place place\_19 = 5

Place place\_20 = 2

Place place\_21 = 2

Place place\_22 = 5

Place place\_23 = 1

Place place\_24 = 1

Place place\_25 = 4

Place place\_26 = 2

Place place\_27 = 4

Place place\_28 = 3

Place place\_29 = 1

Place place\_30 = 2

Place place\_31 = 2

Place place\_32 = 4

Place place\_33 = 1

Place place\_34 = 1

Place place\_35 = 1

Place place\_36 = 4

Place place\_37 = 2

Place place\_38 = 3

Place place\_39 = 4

Place place\_40 = 2

Place place\_41 = 1

Place place\_42 = 1

Place place\_43 = 3

Place place\_44 = 2

Place place\_45 = 2

Place place\_46 = 4

Place place\_47 = 3

Place place\_48 = 5

Place place\_49 = 1

Place place\_50 = 2

Place place\_51 = 2

Place place\_52 = 1

Place place\_53 = 1

Place place\_54 = 4

Place place\_55 = 1

Place place\_56 = 2

Place place\_57 = 1

Place place\_58 = 3

Place place\_59 = 2

Place place\_60 = 1

Place place\_61 = 2

Place place\_62 = 3

Place place\_63 = 3

Place place\_64 = 2

Place place\_65 = 3

Place place\_66 = 5

Place place\_67 = 1

Place place\_68 = 1

Place place\_69 = 2

Place place\_70 = 1

Place place\_71 = 3

Place place\_72 = 1

Place place\_73 = 2

Place place\_74 = 2

Place place\_75 = 3

Place place\_76 = 3

Place place\_77 = 2

Place place\_78 = 5

Place place\_79 = 1

Place place\_80 = 1

Place place\_81 = 5

Place place\_82 = 3

Place place\_83 = 3

Place place\_84 = 2

Place place\_85 = 1

Place place\_86 = 2

Place place\_87 = 4

Place place\_88 = 1

Place place\_89 = 4

Place place\_90 = 3

Place place\_91 = 1

Place place\_92 = 5

Place place\_93 = 1

Place place\_94 = 1

Place place\_95 = 3

Place place\_96 = 2

Place place\_97 = 5

Place place\_98 = 4

Place place\_99 = 1

Place place\_100 = 3

Place place\_101 = 3

Place place\_102 = 5

Place place\_103 = 1

Place place\_104 = 5

Place place\_105 = 3

Place place\_106 = 4

Place place\_107 = 2

Place place\_108 = 3

Place place\_109 = 4

Place place\_110 = 3

Place place\_111 = 1

Place place\_112 = 3

Place place\_113 = 3

Place sink = 0

Place source = 1

Metric = 288

**Extended Cyclomatic metric**

-1.0

**Details**

Reachability graph is unbounded

**Number of arcs**

539.0

**Details**

**Number of places**

116.0

**Details**

**Number of transitions**

73.0

**Details**

**Structuredness metric**

4612140.0

**Details**

SEQUENCE place\_7

Removed place place\_7

Added arc from 01\_HOOFD\_380+complete to place\_80

Removed transition 01\_HOOFD\_430+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_11

Removed place place\_11

Added arc from 01\_HOOFD\_520+complete to place\_10

Added arc from 01\_HOOFD\_520+complete to place\_59

Added arc from 01\_HOOFD\_520+complete to place\_73

Removed transition 01\_HOOFD\_530+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_17

Removed place place\_17

Added arc from END+complete to sink

Removed transition [end]@1664889614020+[end]@1664889614020

Sum = 2.0

Metric = 2.0

SEQUENCE place\_23

Removed place place\_23

Added arc from 09\_AH\_I\_010+complete to place\_27

Added arc from 09\_AH\_I\_010+complete to place\_74

Added arc from 09\_AH\_I\_010+complete to place\_100

Added arc from 09\_AH\_I\_010+complete to place\_105

Removed transition 11\_AH\_II\_010+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_33

Removed place place\_33

Added arc from 01\_HOOFD\_065\_1+complete to place\_4

Added arc from 01\_HOOFD\_065\_1+complete to place\_12

Added arc from 01\_HOOFD\_065\_1+complete to place\_46

Added arc from 01\_HOOFD\_065\_1+complete to place\_64

Added arc from 01\_HOOFD\_065\_1+complete to place\_96

Added arc from 01\_HOOFD\_065\_1+complete to place\_98

Removed transition 01\_HOOFD\_065\_2+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_35

Removed place place\_35

Added arc from 01\_HOOFD\_250\_1+complete to place\_111

Removed transition 01\_HOOFD\_250\_2+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_41

Removed place place\_41

Added arc from 01\_HOOFD\_015+complete to place\_43

Added arc from 01\_HOOFD\_015+complete to place\_70

Added arc from 01\_HOOFD\_015+complete to place\_97

Added arc from 01\_HOOFD\_015+complete to place\_104

Added arc from 01\_HOOFD\_015+complete to place\_106

Removed transition 01\_HOOFD\_020+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_53

Removed place place\_53

Added arc from 01\_HOOFD\_110\_1+complete to place\_4

Added arc from 01\_HOOFD\_110\_1+complete to place\_99

Removed transition 01\_HOOFD\_110\_2+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_55

Removed place place\_55

Added arc from 08\_AWB45\_010+complete to place\_20

Added arc from 08\_AWB45\_010+complete to place\_31

Added arc from 08\_AWB45\_010+complete to place\_60

Added arc from 08\_AWB45\_010+complete to place\_91

Removed transition 08\_AWB45\_020\_1+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_57

Removed place place\_57

Added arc from [start>@1664889614020+[start>@1664889614020 to place\_68

Removed transition START+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_68

Removed place place\_68

Added arc from [start>@1664889614020+[start>@1664889614020 to place\_13

Added arc from [start>@1664889614020+[start>@1664889614020 to place\_34

Added arc from [start>@1664889614020+[start>@1664889614020 to place\_37

Removed transition 01\_HOOFD\_010+complete

Sum = 3.0

Metric = 3.0

SEQUENCE place\_72

Removed place place\_72

Added arc from 01\_HOOFD\_375+complete to place\_80

Removed transition 01\_HOOFD\_380+complete

Sum = 3.0

Metric = 3.0

SEQUENCE place\_80

Removed place place\_80

Added arc from 01\_HOOFD\_375+complete to place\_1

Added arc from 01\_HOOFD\_375+complete to place\_29

Added arc from 01\_HOOFD\_375+complete to place\_105

Removed transition 01\_HOOFD\_480+complete

Sum = 4.0

Metric = 4.0

SEQUENCE place\_85

Removed place place\_85

Added arc from 01\_HOOFD\_250+complete to place\_111

Removed transition 01\_HOOFD\_260+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_88

Removed place place\_88

Added arc from 01\_HOOFD\_195+complete to place\_12

Added arc from 01\_HOOFD\_195+complete to place\_18

Added arc from 01\_HOOFD\_195+complete to place\_92

Removed transition 01\_HOOFD\_200+complete

Sum = 2.0

Metric = 2.0

SEQUENCE place\_93

Removed place place\_93

Added arc from 01\_HOOFD\_110+complete to place\_4

Added arc from 01\_HOOFD\_110+complete to place\_99

Removed transition 01\_HOOFD\_120+complete

Sum = 2.0

Metric = 2.0

UNSTRUCTURED source -> sink

Out place place\_59

In place place\_59

Out transition 01\_HOOFD\_820+complete

In transition 01\_HOOFD\_820+complete

Out place place\_25

In place place\_25

Out transition 01\_BB\_770+complete

In transition 01\_BB\_770+complete

Out place place\_110

In place place\_110

Out transition 01\_HOOFD\_810+complete

In transition 01\_HOOFD\_810+complete

Out place place\_2

In place place\_2

Out place place\_98

In place place\_98

Out place place\_54

In place place\_54

Out place place\_78

In place place\_78

Out transition 01\_HOOFD\_110\_0+complete

In transition 01\_HOOFD\_110\_0+complete

Out transition 04\_BPT\_005+complete

In transition 04\_BPT\_005+complete

Out place place\_50

Out place place\_105

In place place\_105

Out place place\_46

In place place\_46

Out place place\_56

In place place\_56

Out place place\_92

In place place\_92

Out transition 01\_HOOFD\_030\_1+complete

In transition 01\_HOOFD\_030\_1+complete

Out transition 01\_HOOFD\_065\_1+complete

In transition 01\_HOOFD\_065\_1+complete

Out transition 01\_HOOFD\_490\_1+complete

In transition 01\_HOOFD\_490\_1+complete

Out place place\_97

In place place\_97

Out transition 01\_HOOFD\_490\_5a+complete

In transition 01\_HOOFD\_490\_5a+complete

Out transition 14\_VRIJ\_010+complete

In transition 14\_VRIJ\_010+complete

Out place place\_107

In place place\_107

In transition 01\_HOOFD\_250\_1+complete

Out place place\_20

In place place\_20

Out transition 01\_HOOFD\_490\_5+complete

In transition 01\_HOOFD\_490\_5+complete

Out place place\_0

In place place\_0

Out transition 01\_HOOFD\_050+complete

In transition 01\_HOOFD\_050+complete

Out place place\_38

In place place\_38

Out place place\_32

In place place\_32

Out place place\_64

In place place\_64

Out transition 01\_HOOFD\_510\_1+complete

In transition 01\_HOOFD\_510\_1+complete

Out place place\_108

In place place\_108

Out place place\_100

In place place\_100

Out place place\_12

In place place\_12

Out place place\_95

In place place\_95

Out place place\_27

In place place\_27

Out place place\_75

In place place\_75

Out place place\_28

In place place\_28

Out transition 08\_AWB45\_010+complete

In transition 08\_AWB45\_010+complete

In transition 01\_HOOFD\_814+complete

Out transition 01\_HOOFD\_061+complete

In transition 01\_HOOFD\_061+complete

In transition END+complete

Out place place\_39

In place place\_39

Out place place\_63

In place place\_63

Out place place\_1

In place place\_1

In transition 01\_HOOFD\_250+complete

Out transition 01\_HOOFD\_520+complete

In transition 01\_HOOFD\_520+complete

Out place place\_96

In place place\_96

Out transition 16\_LGSV\_010+complete

In transition 16\_LGSV\_010+complete

Out place place\_21

Out place place\_112

In place place\_112

Out place place\_90

In place place\_90

Out place place\_113

Out transition 05\_EIND\_010+complete

In transition 05\_EIND\_010+complete

Out transition 01\_BB\_540+complete

In transition 01\_BB\_540+complete

Out place place\_19

In place place\_19

Out transition 01\_HOOFD\_510\_2+complete

In transition 01\_HOOFD\_510\_2+complete

Out place place\_101

In place place\_101

Out transition 09\_AH\_I\_010+complete

In transition 09\_AH\_I\_010+complete

Out transition 01\_HOOFD\_015+complete

In transition 01\_HOOFD\_015+complete

Out transition 01\_HOOFD\_815+complete

In transition 01\_HOOFD\_815+complete

Out place place\_86

In place place\_86

Out place place\_22

In place place\_22

Out transition 01\_HOOFD\_510\_0+complete

In transition 01\_HOOFD\_510\_0+complete

Out transition 01\_HOOFD\_500+complete

In transition 01\_HOOFD\_500+complete

Out transition 01\_HOOFD\_515+complete

Out place place\_18

Out place place\_48

In place place\_48

Out transition 01\_HOOFD\_495+complete

In transition 01\_HOOFD\_495+complete

Out transition 01\_HOOFD\_065\_0+complete

In transition 01\_HOOFD\_065\_0+complete

Out transition 01\_HOOFD\_180+complete

In transition 01\_HOOFD\_180+complete

Out transition 01\_HOOFD\_110+complete

In transition 01\_HOOFD\_110+complete

Out place place\_9

In place place\_9

Out place place\_82

Out place place\_74

In place place\_74

Out place place\_26

In place place\_26

Out place place\_10

In place place\_10

Out place place\_43

In place place\_43

Out transition 02\_DRZ\_010+complete

In transition 02\_DRZ\_010+complete

Out place place\_45

In place place\_45

Out place place\_8

Out place place\_6

In place place\_6

Out transition 01\_HOOFD\_490\_1a+complete

In transition 01\_HOOFD\_490\_1a+complete

Out place place\_77

In place place\_77

Out place place\_36

In place place\_36

Out place place\_81

In place place\_81

Out place place\_104

In place place\_104

Out transition 01\_HOOFD\_330+complete

Out transition 01\_HOOFD\_110\_1+complete

In transition 01\_HOOFD\_110\_1+complete

Out transition [start>@1664889614020+[start>@1664889614020

Out place place\_65

Out place place\_47

In place place\_47

Out place place\_30

Out place place\_44

Out place place\_37

In place place\_37

Out transition 01\_HOOFD\_510\_2a+complete

In transition 01\_HOOFD\_510\_2a+complete

Out place place\_66

In place place\_66

Out transition 01\_HOOFD\_030\_2+complete

In transition 01\_HOOFD\_030\_2+complete

Out place place\_69

In place place\_69

Out place place\_15

In place place\_15

Out place place\_58

In place place\_58

Out place place\_83

In place place\_83

In place place\_99

Out place place\_71

In place place\_71

Out place place\_102

In place place\_102

Out place place\_31

In place place\_31

Out place place\_4

In place place\_4

Out transition 01\_HOOFD\_490\_2+complete

In transition 01\_HOOFD\_490\_2+complete

Out transition 08\_AWB45\_030+complete

In transition 08\_AWB45\_030+complete

Out transition 01\_HOOFD\_510\_3+complete

In transition 01\_HOOFD\_510\_3+complete

Out place place\_62

In place place\_62

Out place place\_13

In place place\_13

Out transition 01\_HOOFD\_375+complete

In transition 01\_HOOFD\_375+complete

Out transition 08\_AWB45\_005+complete

In transition 08\_AWB45\_005+complete

Out place place\_61

Out place place\_109

In place place\_109

Out transition 01\_HOOFD\_494a+complete

In transition 01\_HOOFD\_494a+complete

Out place place\_51

In place place\_51

Out place place\_73

In place place\_73

Out place place\_106

In place place\_106

Out transition 01\_HOOFD\_195+complete

In transition 01\_HOOFD\_195+complete

In place place\_111

Out transition 01\_HOOFD\_491+complete

In transition 01\_HOOFD\_491+complete

In transition 01\_HOOFD\_510\_4+complete

Out transition 01\_HOOFD\_490\_4+complete

In transition 01\_HOOFD\_490\_4+complete

Out place place\_87

In place place\_87

Out place place\_84

In place place\_84

Out transition 03\_GBH\_005+complete

In transition 03\_GBH\_005+complete

Out place place\_14

In place place\_14

Out place place\_40

In place place\_40

Out transition 13\_CRD\_010+complete

In transition 13\_CRD\_010+complete

Out place place\_76

In place place\_76

Out place place\_5

In place place\_5

In transition 06\_VD\_010+complete

Out transition 08\_AWB45\_020\_2+complete

In transition 08\_AWB45\_020\_2+complete

Out transition 01\_HOOFD\_011+complete

In transition 01\_HOOFD\_011+complete

Out place place\_89

In place place\_89

|F| = 507

|P U T| = 157

Sum = 128115.0

DiffP = 9

DiffT = 4

Added arc from [start>@1664889614020+[start>@1664889614020 to sink

Removed place place\_59

Removed transition 01\_HOOFD\_820+complete

Removed place place\_25

Removed transition 01\_BB\_770+complete

Removed place place\_110

Removed transition 01\_HOOFD\_810+complete

Removed place place\_2

Removed place place\_91

Removed place place\_98

Removed place place\_54

Removed place place\_78

Removed transition 01\_HOOFD\_110\_0+complete

Removed transition 04\_BPT\_005+complete

Removed place place\_50

Removed place place\_105

Removed place place\_46

Removed place place\_56

Removed place place\_92

Removed transition 01\_HOOFD\_030\_1+complete

Removed transition 01\_HOOFD\_065\_1+complete

Removed transition 01\_HOOFD\_490\_1+complete

Removed place place\_97

Removed transition 01\_HOOFD\_490\_5a+complete

Removed transition 14\_VRIJ\_010+complete

Removed place place\_107

Removed transition 01\_HOOFD\_250\_1+complete

Removed place place\_20

Removed transition 01\_HOOFD\_490\_5+complete

Removed place place\_0

Removed transition 01\_HOOFD\_050+complete

Removed place place\_38

Removed place place\_32

Removed place place\_64

Removed transition 01\_HOOFD\_510\_1+complete

Removed place place\_108

Removed place place\_100

Removed place place\_12

Removed place place\_95

Removed transition 01\_HOOFD\_370+complete

Removed place place\_27

Removed place place\_75

Removed place place\_28

Removed transition 08\_AWB45\_010+complete

Removed place place\_34

Removed transition 01\_HOOFD\_814+complete

Removed transition 01\_HOOFD\_061+complete

Removed transition END+complete

Removed place place\_39

Removed place place\_63

Removed place place\_1

Removed transition 01\_HOOFD\_250+complete

Removed transition 01\_HOOFD\_520+complete

Removed place place\_96

Removed place place\_3

Removed place place\_49

Removed transition 16\_LGSV\_010+complete

Removed place place\_21

Removed place place\_112

Removed place place\_90

Removed place place\_113

Removed transition 05\_EIND\_010+complete

Removed transition 01\_BB\_540+complete

Removed place place\_19

Removed place place\_103

Removed transition 01\_HOOFD\_510\_2+complete

Removed place place\_42

Removed place place\_101

Removed transition 09\_AH\_I\_010+complete

Removed transition 01\_HOOFD\_015+complete

Removed transition 01\_HOOFD\_815+complete

Removed place place\_86

Removed place place\_22

Removed transition 01\_HOOFD\_510\_0+complete

Removed transition 01\_HOOFD\_500+complete

Removed transition 01\_HOOFD\_515+complete

Removed place place\_18

Removed place place\_48

Removed transition 01\_HOOFD\_495+complete

Removed transition 01\_HOOFD\_065\_0+complete

Removed transition 01\_HOOFD\_180+complete

Removed transition 01\_HOOFD\_110+complete

Removed place place\_9

Removed place place\_82

Removed place place\_74

Removed place place\_26

Removed place place\_52

Removed place place\_10

Removed place place\_60

Removed place place\_43

Removed transition 02\_DRZ\_010+complete

Removed place place\_16

Removed place place\_45

Removed place place\_8

Removed place place\_6

Removed place place\_24

Removed transition 01\_HOOFD\_490\_1a+complete

Removed place place\_77

Removed place place\_36

Removed place place\_81

Removed place place\_104

Removed transition 01\_HOOFD\_330+complete

Removed transition 01\_HOOFD\_110\_1+complete

Removed place place\_94

Removed place place\_65

Removed place place\_47

Removed place place\_30

Removed place place\_44

Removed place place\_37

Removed transition 01\_HOOFD\_510\_2a+complete

Removed place place\_66

Removed transition 01\_HOOFD\_030\_2+complete

Removed place place\_69

Removed place place\_15

Removed place place\_58

Removed place place\_83

Removed place place\_99

Removed place place\_67

Removed place place\_71

Removed place place\_102

Removed place place\_31

Removed place place\_4

Removed transition 01\_HOOFD\_490\_2+complete

Removed transition 08\_AWB45\_030+complete

Removed transition 01\_HOOFD\_510\_3+complete

Removed place place\_62

Removed place place\_13

Removed transition 01\_HOOFD\_375+complete

Removed transition 08\_AWB45\_005+complete

Removed place place\_61

Removed place place\_109

Removed transition 01\_HOOFD\_494a+complete

Removed place place\_51

Removed place place\_73

Removed place place\_106

Removed transition 01\_HOOFD\_195+complete

Removed place place\_111

Removed transition 01\_HOOFD\_491+complete

Removed transition 01\_HOOFD\_510\_4+complete

Removed transition 01\_HOOFD\_490\_4+complete

Removed place place\_87

Removed place place\_84

Removed transition 03\_GBH\_005+complete

Removed place place\_14

Removed place place\_40

Removed transition 13\_CRD\_010+complete

Removed place place\_76

Removed place place\_5

Removed transition 06\_VD\_010+complete

Removed place place\_70

Removed transition 08\_AWB45\_020\_2+complete

Removed transition 01\_HOOFD\_011+complete

Removed place place\_29

Removed place place\_89

Removed place place\_79

Metric = 4612140.0