**Metrics for net 72b1f45d-f16a-4eda-bca8-6de7a4f5b612**

**Density metric**

0.0113997113997114

**Details**

|F| = 316

|P X T| = 13860

**Extended Cardoso metric**

111.0

**Details**

Place source 64 = 1

Place sink 65 = 0

Place sink 66 = 1

Place sink 67 = 1

Place sink 68 = 1

Place sink 69 = 1

Place sink 70 = 2

Place sink 71 = 1

Place sink 72 = 1

Place sink 74 = 4

Place source 75 = 1

Place sink 76 = 1

Place source 77 = 1

Place sink 78 = 1

Place source 79 = 1

Place sink 80 = 1

Place sink 82 = 1

Place sink 83 = 2

Place source 84 = 1

Place sink 85 = 1

Place source 86 = 1

Place sink 87 = 1

Place sink 88 = 1

Place source 89 = 1

Place sink 90 = 1

Place source 91 = 1

Place sink 92 = 1

Place source 93 = 1

Place sink 94 = 1

Place sink 95 = 1

Place sink 96 = 1

Place sink 97 = 1

Place sink 98 = 1

Place sink 99 = 2

Place sink 100 = 1

Place sink 101 = 1

Place sink 102 = 1

Place sink 103 = 1

Place sink 104 = 1

Place sink 105 = 1

Place source 106 = 1

Place sink 107 = 1

Place source 108 = 1

Place sink 109 = 1

Place source 110 = 1

Place sink 111 = 1

Place source 112 = 2

Place sink 113 = 1

Place middle 114 = 2

Place replacement source 115 = 1

Place source 116 = 2

Place sink 117 = 1

Place sink 118 = 1

Place sink 119 = 1

Place sink 120 = 1

Place sink 121 = 3

Place sink 122 = 1

Place sink 123 = 1

Place sink 124 = 1

Place sink 125 = 1

Place sink 126 = 1

Place sink 127 = 1

Place sink 128 = 1

Place sink 129 = 1

Place sink 130 = 1

Place sink 131 = 1

Place sink 132 = 1

Place sink 133 = 1

Place sink 134 = 1

Place sink 135 = 1

Place sink 136 = 1

Place sink 137 = 1

Place source 138 = 1

Place sink 139 = 1

Place source 140 = 1

Place sink 141 = 1

Place source 142 = 1

Place sink 143 = 1

Place sink 145 = 1

Place sink 146 = 1

Place source 147 = 1

Place sink 148 = 1

Place source 149 = 1

Place sink 150 = 1

Place source 151 = 1

Place sink 152 = 1

Place sink 153 = 2

Place source 154 = 1

Place sink 155 = 1

Place source 156 = 1

Place sink 157 = 1

Place source 158 = 1

Place sink 159 = 1

Place source 160 = 1

Place sink 161 = 1

Place sink 162 = 1

Place sink 163 = 2

Place sink 164 = 1

Place sink 165 = 1

Metric = 111

**Extended Cyclomatic metric**

9975.0

**Details**

|E| = 10007

|V| = 1474

p = 1442

**Number of arcs**

316.0

**Details**

**Number of places**

99.0

**Details**

**Number of transitions**

140.0

**Details**

**Structuredness metric**

9108.0

**Details**

SEQUENCE sink 66

Removed place sink 66

Added arc from START to sink 67

Removed transition 01\_HOOFD\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 72

Removed place sink 72

Added arc from 01\_HOOFD\_020 to source 75

Added arc from 01\_HOOFD\_020 to source 77

Added arc from 01\_HOOFD\_020 to source 79

Added arc from 01\_HOOFD\_020 to source 84

Added arc from 01\_HOOFD\_020 to source 86

Removed transition 01\_HOOFD\_030\_1

Sum = 2.0

Metric = 2.0

SEQUENCE sink 97

Removed place sink 97

Added arc from 01\_HOOFD\_040 to sink 96

Removed transition 01\_HOOFD\_060

Sum = 2.0

Metric = 2.0

SEQUENCE sink 101

Removed place sink 101

Added arc from 01\_HOOFD\_100 to sink 100

Removed transition 01\_HOOFD\_130

Sum = 2.0

Metric = 2.0

SEQUENCE sink 103

Removed place sink 103

Added arc from 01\_HOOFD\_110 to sink 98

Removed transition 01\_HOOFD\_120

Sum = 2.0

Metric = 2.0

SEQUENCE sink 123

Removed place sink 123

Added arc from 01\_HOOFD\_250\_1 to sink 122

Removed transition 01\_HOOFD\_250\_2

Sum = 2.0

Metric = 2.0

SEQUENCE sink 124

Removed place sink 124

Added arc from 01\_HOOFD\_250 to sink 122

Removed transition 01\_HOOFD\_260

Sum = 2.0

Metric = 2.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_011

Sum = 2.0

Metric = 3.0

SEQUENCE sink 67

Removed place sink 67

Added arc from START to sink 68

Removed transition tau from tree

Sum = 5.0

Metric = 5.0

SEQUENCE sink 68

Removed place sink 68

Added arc from START to sink 69

Removed transition 01\_HOOFD\_015

Sum = 6.0

Metric = 6.0

CHOICE tau from tree

Removed transition 05\_EIND\_010

Sum = 2.0

Metric = 3.0

SEQUENCE sink 69

Removed place sink 69

Added arc from START to sink 70

Removed transition tau from tree

Sum = 9.0

Metric = 9.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_100\_0

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_065\_1

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_101

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_030\_2

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_061

Sum = 2.0

Metric = 3.0

SEQUENCE sink 88

Removed place sink 88

Added arc from tau from tree to source 89

Added arc from tau from tree to source 91

Added arc from tau from tree to source 93

Removed transition tau split

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 02\_DRZ\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_065\_0

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_090

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 04\_BPT\_005

Sum = 2.0

Metric = 3.0

SEQUENCE sink 95

Removed place sink 95

Added arc from tau from tree to sink 94

Removed transition tau from tree

Sum = 6.0

Metric = 6.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_040

Sum = 3.0

Metric = 4.5

SEQUENCE sink 83

Removed place sink 83

Added arc from tau join to sink 96

Removed transition tau from tree

Sum = 5.5

Metric = 5.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_065\_2

Sum = 2.0

Metric = 3.0

SEQUENCE sink 96

Removed place sink 96

Added arc from tau join to sink 82

Removed transition tau from tree

Sum = 8.5

Metric = 8.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_180

Sum = 2.0

Metric = 3.0

SEQUENCE sink 104

Removed place sink 104

Added arc from tau from tree to source 106

Added arc from tau from tree to source 108

Added arc from tau from tree to source 110

Added arc from tau from tree to source 112

Added arc from tau from tree to source 116

Removed transition tau split

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_195

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 08\_AWB45\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 08\_AWB45\_030

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 08\_AWB45\_020\_2

Sum = 2.0

Metric = 3.0

SEQUENCE sink 118

Removed place sink 118

Added arc from 08\_AWB45\_020\_1 to sink 119

Removed transition tau from tree

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_196

Sum = 2.0

Metric = 3.0

SEQUENCE sink 105

Removed place sink 105

Added arc from tau join to sink 120

Removed transition tau from tree

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_200

Sum = 2.0

Metric = 3.0

SEQUENCE sink 120

Removed place sink 120

Added arc from tau join to sink 121

Removed transition tau from tree

Sum = 7.0

Metric = 7.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_250\_1

Removed transition 01\_HOOFD\_250

Sum = 5.0

Metric = 7.5

SEQUENCE sink 121

Removed place sink 121

Added arc from tau join to sink 122

Removed transition tau from tree

Sum = 14.5

Metric = 14.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_330

Sum = 2.0

Metric = 3.0

SEQUENCE sink 122

Removed place sink 122

Added arc from tau join to sink 125

Removed transition tau from tree

Sum = 17.5

Metric = 17.5

CHOICE tau from tree

Removed transition 09\_AH\_I\_010

Sum = 2.0

Metric = 3.0

SEQUENCE sink 125

Removed place sink 125

Added arc from tau join to sink 126

Removed transition tau from tree

Sum = 20.5

Metric = 20.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_370

Sum = 2.0

Metric = 3.0

SEQUENCE sink 126

Removed place sink 126

Added arc from tau join to sink 127

Removed transition tau from tree

Sum = 23.5

Metric = 23.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_375

Sum = 2.0

Metric = 3.0

SEQUENCE sink 127

Removed place sink 127

Added arc from tau join to sink 128

Removed transition tau from tree

Sum = 26.5

Metric = 26.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_380

Sum = 2.0

Metric = 3.0

SEQUENCE sink 128

Removed place sink 128

Added arc from tau join to sink 129

Removed transition tau from tree

Sum = 29.5

Metric = 29.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_430

Sum = 2.0

Metric = 3.0

SEQUENCE sink 129

Removed place sink 129

Added arc from tau join to sink 130

Removed transition tau from tree

Sum = 32.5

Metric = 32.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_470

Removed transition 11\_AH\_II\_010

Sum = 3.0

Metric = 4.5

SEQUENCE sink 130

Removed place sink 130

Added arc from tau join to sink 131

Removed transition tau from tree

Sum = 37.0

Metric = 37.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_480

Sum = 2.0

Metric = 3.0

SEQUENCE sink 131

Removed place sink 131

Added arc from tau join to sink 132

Removed transition tau from tree

Sum = 40.0

Metric = 40.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_1

Sum = 2.0

Metric = 3.0

SEQUENCE sink 132

Removed place sink 132

Added arc from tau join to sink 133

Removed transition tau from tree

Sum = 43.0

Metric = 43.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_1a

Sum = 2.0

Metric = 3.0

SEQUENCE sink 133

Removed place sink 133

Added arc from tau join to sink 134

Removed transition tau from tree

Sum = 46.0

Metric = 46.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_2

Sum = 2.0

Metric = 3.0

SEQUENCE sink 134

Removed place sink 134

Added arc from tau join to sink 135

Removed transition tau from tree

Sum = 49.0

Metric = 49.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_4

Sum = 2.0

Metric = 3.0

SEQUENCE sink 135

Removed place sink 135

Added arc from tau join to sink 136

Removed transition tau from tree

Sum = 52.0

Metric = 52.0

SEQUENCE sink 136

Removed place sink 136

Added arc from tau join to source 138

Added arc from tau join to source 140

Added arc from tau join to source 142

Added arc from tau join to source 147

Added arc from tau join to source 149

Added arc from tau join to source 151

Removed transition tau split

Sum = 53.0

Metric = 53.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_520

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_1

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_2a

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_5

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_495

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_3

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_494a

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_5a

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_491

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_0

Sum = 2.0

Metric = 3.0

SEQUENCE sink 162

Removed place sink 162

Added arc from tau from tree to sink 163

Removed transition tau from tree

Sum = 6.0

Metric = 6.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_4

Sum = 2.0

Metric = 3.0

SEQUENCE sink 164

Removed place sink 164

Added arc from 01\_HOOFD\_510\_3 to sink 165

Removed transition tau from tree

Sum = 4.0

Metric = 4.0

SEQUENCE sink 165

Removed place sink 165

Added arc from 01\_HOOFD\_510\_3 to sink 161

Removed transition 01\_HOOFD\_515

Sum = 5.0

Metric = 5.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_3

Sum = 6.0

Metric = 9.0

SEQUENCE sink 163

Removed place sink 163

Added arc from tau from tree to sink 161

Removed transition tau from tree

Sum = 15.0

Metric = 15.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_2

Sum = 2.0

Metric = 3.0

SEQUENCE sink 146

Removed place sink 146

Added arc from tau join to sink 145

Removed transition tau from tree

Sum = 4.0

Metric = 4.0

MARKED GRAPH 01\_HOOFD\_020 -> tau join

Sum = 81.0

DiffT = 2

Added arc from 01\_HOOFD\_020 to sink 74

Removed place sink 80

Removed transition tau from tree

Removed transition tau from tree

Removed place source 86

Removed place sink 87

Removed transition tau from tree

Removed place source 75

Removed place sink 76

Removed transition tau from tree

Removed place source 91

Removed transition tau from tree

Removed place sink 82

Removed place source 84

Removed place source 93

Removed place sink 85

Removed transition tau join

Removed transition tau join

Removed transition tau from tree

Removed place sink 90

Removed place source 89

Removed place source 79

Removed transition tau join

Removed transition tau from tree

Removed place sink 78

Removed place sink 94

Removed place source 77

Removed transition tau from tree

Removed place sink 92

Metric = 162.0

MARKED GRAPH tau split -> tau join

Sum = 48.0

DiffT = 1

Added arc from tau split to sink 152

Removed transition 01\_HOOFD\_500

Removed place sink 157

Removed place source 154

Removed transition tau join

Removed transition tau from tree

Removed place source 158

Removed transition tau from tree

Removed place sink 161

Removed place source 156

Removed transition tau from tree

Removed place sink 155

Removed place sink 159

Removed place source 160

Metric = 48.0

CHOICE tau from tree

Removed transition tau split

Sum = 49.0

Metric = 73.5

SEQUENCE sink 153

Removed place sink 153

Added arc from tau from tree to sink 152

Removed transition tau from tree

Sum = 76.5

Metric = 76.5

MARKED GRAPH tau join -> tau join

Sum = 299.0

DiffT = 3

Added arc from tau join to sink 137

Removed place sink 150

Removed place source 147

Removed transition tau join

Removed place sink 139

Removed place source 138

Removed transition tau from tree

Removed place sink 152

Removed place sink 141

Removed transition tau from tree

Removed place sink 143

Removed place source 140

Removed transition tau from tree

Removed transition tau from tree

Removed place sink 148

Removed place source 151

Removed transition tau from tree

Removed place source 149

Removed place sink 145

Removed transition tau from tree

Removed transition tau join

Removed place source 142

Metric = 897.0

STATE MACHINE sink 74 -> sink 98

Sum = 22.0

DiffP = 1

Added arc from tau from tree to sink 98

Removed transition tau from tree

Removed place sink 99

Removed transition 01\_HOOFD\_050

Removed place sink 102

Removed transition 01\_HOOFD\_110

Removed transition tau from tree

Removed transition 01\_HOOFD\_110\_0

Removed transition tau from tree

Removed place sink 100

Removed transition 01\_HOOFD\_100

Removed transition 06\_VD\_010

Metric = 22.0

SEQUENCE sink 74

Removed place sink 74

Added arc from 01\_HOOFD\_020 to sink 98

Removed transition tau from tree

Sum = 184.0

Metric = 184.0

SEQUENCE sink 98

Removed place sink 98

Added arc from 01\_HOOFD\_020 to source 106

Added arc from 01\_HOOFD\_020 to source 108

Added arc from 01\_HOOFD\_020 to source 110

Added arc from 01\_HOOFD\_020 to source 112

Added arc from 01\_HOOFD\_020 to source 116

Removed transition tau from tree

Sum = 188.0

Metric = 188.0

STATE MACHINE source 112 -> sink 113

Sum = 10.0

DiffP = 1

Added arc from tau from tree to sink 113

Removed transition tau from tree

Removed transition tau start

Removed place replacement source 115

Removed transition tau from tree

Removed transition 08\_AWB45\_005

Removed place middle 114

Metric = 10.0

STATE MACHINE source 116 -> sink 117

Sum = 14.0

DiffP = 2

Added arc from tau from tree to sink 117

Removed place sink 119

Removed transition 08\_AWB45\_020\_1

Removed transition 08\_AWB45\_040

Removed transition tau from tree

Metric = 28.0

MARKED GRAPH 01\_HOOFD\_020 -> tau join

Sum = 2264.0

DiffT = 1

Added arc from 01\_HOOFD\_020 to sink 137

Removed place source 116

Removed transition tau from tree

Removed place sink 107

Removed place sink 111

Removed place source 106

Removed place sink 113

Removed place sink 117

Removed transition tau from tree

Removed place source 112

Removed transition tau from tree

Removed place source 110

Removed transition tau join

Removed place sink 109

Removed transition tau from tree

Removed place source 108

Removed transition tau from tree

Metric = 2264.0

STATE MACHINE source 64 -> sink 65

Sum = 4554.0

DiffP = 2

Added arc from START to sink 65

Removed place sink 137

Removed transition 01\_HOOFD\_020

Removed place sink 70

Removed transition tau from tree

Removed place sink 71

Removed transition 01\_HOOFD\_530

Removed transition END

Removed transition tau from tree

Metric = 9108.0