**Metrics for net fd75c441-e831-4110-983b-e80a49384eff**

**Density metric**

0.008970187318617536

**Details**

|F| = 408

|P X T| = 22742

**Extended Cardoso metric**

145.0

**Details**

Place source 911 = 1

Place sink 912 = 0

Place sink 913 = 1

Place sink 914 = 2

Place sink 915 = 1

Place sink 916 = 1

Place sink 917 = 1

Place sink 918 = 1

Place source 919 = 1

Place sink 920 = 1

Place source 921 = 1

Place sink 922 = 1

Place sink 924 = 1

Place sink 925 = 1

Place source 926 = 1

Place sink 927 = 1

Place source 928 = 1

Place sink 929 = 2

Place sink 931 = 1

Place source 932 = 1

Place sink 933 = 1

Place source 934 = 1

Place sink 935 = 1

Place source 936 = 1

Place sink 937 = 1

Place sink 938 = 1

Place source 939 = 1

Place sink 940 = 1

Place sink 941 = 1

Place source 942 = 1

Place sink 943 = 1

Place sink 944 = 1

Place sink 945 = 2

Place source 946 = 1

Place sink 947 = 1

Place sink 949 = 1

Place sink 950 = 2

Place source 951 = 1

Place sink 952 = 1

Place source 953 = 1

Place sink 954 = 1

Place source 955 = 1

Place sink 956 = 1

Place source 957 = 1

Place sink 958 = 1

Place source 959 = 1

Place sink 960 = 1

Place source 961 = 1

Place sink 962 = 1

Place source 963 = 1

Place sink 964 = 1

Place source 965 = 1

Place sink 966 = 1

Place source 967 = 1

Place sink 968 = 1

Place source 969 = 1

Place sink 970 = 1

Place source 971 = 2

Place sink 972 = 1

Place sink 973 = 1

Place sink 974 = 1

Place source 975 = 1

Place sink 976 = 1

Place source 977 = 1

Place sink 978 = 1

Place source 979 = 1

Place sink 980 = 1

Place source 981 = 2

Place sink 982 = 1

Place middle 983 = 2

Place replacement source 984 = 1

Place source 985 = 1

Place sink 986 = 1

Place source 987 = 1

Place sink 988 = 1

Place source 989 = 1

Place sink 990 = 1

Place source 991 = 1

Place sink 992 = 1

Place source 993 = 1

Place sink 994 = 1

Place source 995 = 1

Place sink 996 = 1

Place source 997 = 1

Place sink 998 = 1

Place source 999 = 1

Place sink 1000 = 1

Place source 1001 = 1

Place sink 1002 = 1

Place sink 1003 = 1

Place sink 1004 = 1

Place source 1005 = 1

Place sink 1006 = 1

Place source 1007 = 1

Place sink 1008 = 1

Place sink 1009 = 1

Place source 1010 = 1

Place sink 1011 = 1

Place source 1012 = 1

Place sink 1013 = 1

Place sink 1014 = 1

Place source 1015 = 1

Place sink 1016 = 1

Place source 1017 = 1

Place sink 1018 = 1

Place sink 1019 = 1

Place sink 1020 = 1

Place source 1021 = 1

Place sink 1022 = 1

Place source 1023 = 1

Place sink 1024 = 1

Place sink 1025 = 1

Place sink 1026 = 2

Place sink 1027 = 1

Place sink 1028 = 1

Place source 1029 = 1

Place sink 1030 = 1

Place source 1031 = 2

Place sink 1032 = 1

Place sink 1033 = 1

Place sink 1034 = 1

Place sink 1035 = 1

Place sink 1036 = 1

Place sink 1037 = 1

Place source 1039 = 1

Place sink 1040 = 1

Place source 1041 = 1

Place sink 1042 = 1

Place source 1043 = 1

Place sink 1044 = 1

Place sink 1045 = 1

Place source 1046 = 1

Place sink 1047 = 1

Place source 1048 = 1

Place sink 1049 = 1

Place source 1050 = 1

Place sink 1051 = 1

Metric = 145

**Extended Cyclomatic metric**

9723.0

**Details**

|E| = 10027

|V| = 1625

p = 1321

**Number of arcs**

408.0

**Details**

**Number of places**

137.0

**Details**

**Number of transitions**

166.0

**Details**

**Structuredness metric**

120720.0

**Details**

SEQUENCE sink 913

Removed place sink 913

Added arc from START to sink 914

Removed transition 01\_HOOFD\_010

Sum = 2.0

Metric = 2.0

SEQUENCE sink 917

Removed place sink 917

Added arc from 01\_HOOFD\_015 to sink 915

Removed transition 01\_HOOFD\_020

Sum = 2.0

Metric = 2.0

SEQUENCE sink 974

Removed place sink 974

Added arc from 01\_HOOFD\_110\_1 to sink 973

Removed transition 01\_HOOFD\_110\_2

Sum = 2.0

Metric = 2.0

SEQUENCE sink 1037

Removed place sink 1037

Added arc from 01\_HOOFD\_520 to sink 1036

Removed transition 01\_HOOFD\_530

Sum = 2.0

Metric = 2.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_061

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_050

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 02\_DRZ\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 03\_GBH\_005

Sum = 2.0

Metric = 3.0

SEQUENCE sink 931

Removed place sink 931

Added arc from tau from tree to source 932

Added arc from tau from tree to source 934

Added arc from tau from tree to source 936

Removed transition tau split

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 16\_LGSV\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 05\_EIND\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_030\_1

Sum = 2.0

Metric = 3.0

SEQUENCE sink 938

Removed place sink 938

Added arc from tau from tree to source 939

Added arc from tau from tree to source 942

Removed transition tau split

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_030\_2

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_065\_0

Sum = 2.0

Metric = 3.0

SEQUENCE sink 941

Removed place sink 941

Added arc from tau from tree to sink 940

Removed transition tau from tree

Sum = 6.0

Metric = 6.0

CHOICE tau from tree

Removed transition 04\_BPT\_005

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_040

Sum = 2.0

Metric = 3.0

SEQUENCE sink 925

Removed place sink 925

Added arc from tau join to sink 924

Removed transition tau from tree

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_060

Removed transition 01\_HOOFD\_110\_0

Sum = 3.0

Metric = 4.5

SEQUENCE sink 918

Removed place sink 918

Added arc from tau join to sink 944

Removed transition tau from tree

Sum = 5.5

Metric = 5.5

SEQUENCE sink 944

Removed place sink 944

Added arc from tau join to source 946

Added arc from tau join to source 951

Added arc from tau join to source 953

Added arc from tau join to source 955

Added arc from tau join to source 957

Added arc from tau join to source 959

Added arc from tau join to source 961

Added arc from tau join to source 963

Added arc from tau join to source 965

Added arc from tau join to source 967

Added arc from tau join to source 969

Added arc from tau join to source 971

Removed transition tau split

Sum = 6.5

Metric = 6.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_5

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 11\_AH\_II\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_2

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_250\_2

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_065\_2

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_260

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 08\_AWB45\_020\_1

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_195

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_200

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_480

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\_100

Removed transition 01\_HOOFD\_110\_1

Sum = 4.0

Metric = 6.0

SEQUENCE sink 973

Removed place sink 973

Added arc from tau from tree to source 975

Added arc from tau from tree to source 977

Added arc from tau from tree to source 979

Added arc from tau from tree to source 981

Added arc from tau from tree to source 985

Added arc from tau from tree to source 987

Added arc from tau from tree to source 989

Added arc from tau from tree to source 991

Added arc from tau from tree to source 993

Added arc from tau from tree to source 995

Added arc from tau from tree to source 997

Added arc from tau from tree to source 999

Added arc from tau from tree to source 1001

Removed transition tau split

Sum = 7.0

Metric = 7.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_330

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 09\_AH\_I\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_380

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_370

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_110

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_120

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_375

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_430

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_1

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 14\_VRIJ\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 06\_VD\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_180

Sum = 2.0

Metric = 3.0

SEQUENCE sink 1003

Removed place sink 1003

Added arc from tau from tree to sink 1004

Removed transition tau from tree

Sum = 6.0

Metric = 6.0

SEQUENCE sink 1004

Removed place sink 1004

Added arc from tau from tree to source 1005

Added arc from tau from tree to source 1007

Removed transition tau split

Sum = 7.0

Metric = 7.0

CHOICE tau from tree

Removed transition 08\_AWB45\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 08\_AWB45\_020\_2

Sum = 2.0

Metric = 3.0

SEQUENCE sink 1009

Removed place sink 1009

Added arc from tau from tree to source 1010

Added arc from tau from tree to source 1012

Removed transition tau split

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 08\_AWB45\_030

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_250\_1

Removed transition 01\_HOOFD\_250

Sum = 3.0

Metric = 4.5

SEQUENCE sink 1014

Removed place sink 1014

Added arc from tau from tree to source 1015

Added arc from tau from tree to source 1017

Removed transition tau split

Sum = 5.5

Metric = 5.5

CHOICE tau from tree

Removed transition 13\_CRD\_010

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_1a

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_490\_4

Sum = 2.0

Metric = 3.0

SEQUENCE sink 1019

Removed place sink 1019

Added arc from tau from tree to sink 1020

Removed transition tau from tree

Sum = 6.0

Metric = 6.0

SEQUENCE sink 1020

Removed place sink 1020

Added arc from tau from tree to source 1021

Added arc from tau from tree to source 1023

Removed transition tau split

Sum = 7.0

Metric = 7.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_491

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\_510\_2

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_510\_4

Sum = 2.0

Metric = 3.0

SEQUENCE sink 1034

Removed place sink 1034

Added arc from 01\_HOOFD\_510\_3 to sink 1035

Removed transition tau from tree

Sum = 4.0

Metric = 4.0

SEQUENCE sink 1035

Removed place sink 1035

Added arc from 01\_HOOFD\_510\_3 to sink 1032

Removed transition 01\_HOOFD\_515

Sum = 5.0

Metric = 5.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_520

Sum = 3.0

Metric = 4.5

SEQUENCE sink 945

Removed place sink 945

Added arc from tau join to sink 1036

Removed transition tau from tree

Sum = 5.5

Metric = 5.5

SEQUENCE sink 1036

Removed place sink 1036

Added arc from tau join to source 1039

Added arc from tau join to source 1041

Added arc from tau join to source 1043

Removed transition tau split

Sum = 6.5

Metric = 6.5

CHOICE tau from tree

Removed transition 01\_HOOFD\_815

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_810

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_BB\_540

Sum = 2.0

Metric = 3.0

SEQUENCE sink 1045

Removed place sink 1045

Added arc from tau from tree to source 1046

Added arc from tau from tree to source 1048

Added arc from tau from tree to source 1050

Removed transition tau split

Sum = 4.0

Metric = 4.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_814

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_BB\_770

Sum = 2.0

Metric = 3.0

CHOICE tau from tree

Removed transition 01\_HOOFD\_820

Sum = 2.0

Metric = 3.0

MARKED GRAPH tau from tree -> tau join

Sum = 85.0

DiffT = 1

Added arc from tau from tree to sink 1002

Removed transition tau from tree

Removed place sink 1024

Removed place sink 1006

Removed place sink 1011

Removed place source 1005

Removed transition tau from tree

Removed transition tau from tree

Removed place source 1021

Removed transition tau from tree

Removed place sink 1022

Removed place sink 1016

Removed place sink 1018

Removed place source 1017

Removed transition tau join

Removed place sink 1008

Removed transition tau join

Removed place sink 1013

Removed transition tau join

Removed place source 1023

Removed transition tau from tree

Removed place source 1010

Removed transition tau from tree

Removed place source 1012

Removed transition tau from tree

Removed place source 1007

Removed place source 1015

Removed transition tau join

Removed transition tau from tree

Metric = 85.0

MARKED GRAPH tau join -> END

Sum = 55.0

DiffT = 2

Added arc from tau join to sink 912

Removed place source 1043

Removed transition tau from tree

Removed transition tau from tree

Removed transition tau join

Removed place sink 1049

Removed transition tau from tree

Removed transition tau from tree

Removed place source 1050

Removed transition tau from tree

Removed place sink 1051

Removed place sink 1042

Removed place source 1039

Removed place sink 1044

Removed place source 1046

Removed transition tau from tree

Removed place sink 1047

Removed place source 1041

Removed place sink 1040

Removed transition END

Removed place source 1048

Metric = 110.0

MARKED GRAPH tau from tree -> tau join

Sum = 50.0

DiffT = 1

Added arc from tau from tree to sink 929

Removed transition tau from tree

Removed place sink 940

Removed place source 934

Removed place source 936

Removed place sink 933

Removed transition tau from tree

Removed place source 932

Removed transition tau from tree

Removed place sink 937

Removed transition tau from tree

Removed transition tau join

Removed place sink 935

Removed transition tau from tree

Removed transition tau join

Removed place sink 943

Removed place source 939

Removed place source 942

Metric = 50.0

STATE MACHINE sink 950 -> sink 1025

Sum = 14.0

DiffP = 2

Added arc from tau from tree to sink 1025

Removed transition tau from tree

Removed transition 01\_HOOFD\_510\_0

Removed transition 01\_HOOFD\_495

Removed place sink 1027

Removed place sink 1026

Removed transition 01\_HOOFD\_500

Removed transition tau from tree

Removed transition 01\_HOOFD\_510\_1

Removed place sink 1028

Metric = 28.0

SEQUENCE sink 950

Removed place sink 950

Added arc from tau join to sink 1025

Removed transition tau from tree

Sum = 29.0

Metric = 29.0

SEQUENCE sink 1025

Removed place sink 1025

Added arc from tau join to source 1029

Added arc from tau join to source 1031

Removed transition tau split

Sum = 30.0

Metric = 30.0

STATE MACHINE source 911 -> sink 915

Sum = 14.0

DiffP = 2

Added arc from START to sink 915

Removed transition tau from tree

Removed place sink 914

Removed transition 01\_HOOFD\_011

Removed transition 01\_HOOFD\_015

Removed transition tau from tree

Removed place sink 916

Metric = 28.0

SEQUENCE sink 915

Removed place sink 915

Added arc from START to source 919

Added arc from START to source 921

Added arc from START to source 926

Added arc from START to source 928

Removed transition tau split

Sum = 29.0

Metric = 29.0

STATE MACHINE source 981 -> sink 982

Sum = 10.0

DiffP = 1

Added arc from tau from tree to sink 982

Removed transition 08\_AWB45\_005

Removed transition tau from tree

Removed place replacement source 984

Removed place middle 983

Removed transition tau from tree

Removed transition tau start

Metric = 10.0

MARKED GRAPH tau from tree -> tau join

Sum = 272.0

DiffT = 1

Added arc from tau from tree to sink 972

Removed place source 991

Removed transition tau from tree

Removed place sink 994

Removed place sink 1000

Removed transition tau from tree

Removed place source 997

Removed transition tau from tree

Removed place sink 986

Removed transition tau from tree

Removed transition tau from tree

Removed place source 989

Removed transition tau from tree

Removed place source 979

Removed place sink 1002

Removed place source 985

Removed place source 995

Removed place sink 990

Removed place source 993

Removed place sink 980

Removed place sink 998

Removed place sink 988

Removed place sink 992

Removed transition tau from tree

Removed place source 977

Removed place source 975

Removed place source 999

Removed place sink 978

Removed place source 981

Removed place source 1001

Removed transition tau from tree

Removed place sink 976

Removed transition tau from tree

Removed transition tau from tree

Removed transition tau from tree

Removed transition tau join

Removed transition tau from tree

Removed place sink 982

Removed place source 987

Removed place sink 996

Removed transition tau from tree

Metric = 272.0

STATE MACHINE source 1031 -> sink 1032

Sum = 16.0

DiffP = 2

Added arc from tau from tree to sink 1032

Removed transition tau from tree

Removed transition 01\_HOOFD\_510\_3

Removed place sink 1033

Removed transition 01\_HOOFD\_510\_2a

Metric = 32.0

MARKED GRAPH tau join -> tau join

Sum = 975.0

DiffT = 3

Added arc from tau join to sink 912

Removed transition tau join

Removed transition tau join

Removed place sink 1032

Removed place sink 970

Removed place source 959

Removed transition tau from tree

Removed place source 951

Removed place sink 954

Removed place sink 956

Removed place sink 952

Removed transition tau from tree

Removed place source 967

Removed place sink 947

Removed place source 955

Removed transition tau from tree

Removed place source 946

Removed place source 1029

Removed place source 961

Removed place source 969

Removed place source 971

Removed place source 963

Removed transition tau from tree

Removed transition tau from tree

Removed place source 953

Removed place sink 968

Removed transition tau from tree

Removed transition tau from tree

Removed place source 1031

Removed transition tau from tree

Removed place sink 1030

Removed place source 957

Removed place sink 960

Removed place sink 949

Removed transition tau from tree

Removed place sink 962

Removed place sink 964

Removed place source 965

Removed transition tau from tree

Removed transition tau from tree

Removed transition tau from tree

Removed place sink 966

Removed place sink 958

Removed transition tau join

Removed transition tau from tree

Removed place sink 972

Removed transition tau from tree

Metric = 2925.0

UNSTRUCTURED source 911 -> sink 912

In place source 928

In transition tau join

In transition tau join

Out place sink 929

Out transition START

|F| = 22

|P U T| = 19

Sum = 60360.0

DiffP = 1

DiffT = 2

Added arc from START to sink 912

Removed place source 928

Removed place source 921

Removed place sink 920

Removed place source 926

Removed place source 919

Removed place sink 922

Removed transition tau from tree

Removed place sink 927

Removed place sink 924

Removed transition tau join

Removed transition tau join

Removed transition tau from tree

Removed transition tau from tree

Removed place sink 929

Removed transition tau from tree

Removed transition tau from tree

Metric = 120720.0