We ran 10 tasks with 40>=jobs>=30 with machine number==10

Summary for jobs that were not cut off on root level:

* Job 1
  + size=30, sum=606: worked 11 secs and seen 492182 nodes
* job 3
  + size=30, sum=696: worked 1 sec and seen 40322 nodes
* job 4
  + size=30, sum=8495: worked 36.1 minutes and seen 144M nodes

"--------------------START 1 from 10--------------------------------"

input selected: (48, 35, 34, 34, 33, 32, 32, 31, 29, 25, 23, 23, 22, 22, 22, 21, 19, 17, 17, 15, 11, 11, 11, 9, 9, 7, 7, 4, 2, 1) size 30 sum 606

perfectSplit 70.6 pMax 49 pigeonholePrinciple 17

#########bestSolutionFound just got replaced "Target function=73 Number of Machines=10 . Content: <48,15>,<35,19,9>,<34,17,11,1>,<34,17,11>,<33,21,9>,<32,22,7,2>,<32,22,7>,<31,22,4>,<29,23,11>,<25,23>" #########

#########bestSolutionFound just got replaced "Target function=72 Number of Machines=10 . Content: <48,11,2,1>,<35,25>,<34,23,4>,<34,23>,<33,29>,<32,22,7>,<32,22,7>,<31,22,9>,<21,19,11,11>,<17,17,15,9>" #########

#########bestSolutionFound just got replaced "Target function=71 Number of Machines=10 . Content: <48,11,2>,<35,25,1>,<34,23,4>,<34,23>,<33,21,7>,<32,29>,<32,22,7>,<31,19,11>,<22,22,17>,<17,15,11,9,9>" #########

BEST FOUND: "Target function=71 Number of Machines=10 . Content: <48,11,2>,<35,25,1>,<34,23,4>,<34,23>,<33,21,7>,<32,29>,<32,22,7>,<31,19,11>,<22,22,17>,<17,15,11,9,9>"

nodes seen: 492182 . run time: 11.482 seconds

"-----------END 1 from 10-----------------------------------------"

"--------------------START 2 from 10--------------------------------"

input selected: (290, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10) size 30 sum 580

perfectSplit 68 pMax 291 pigeonholePrinciple 40

#########bestSolutionFound just got replaced "Target function=300 Number of Machines=10 . Content: <290>,<10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10>,<>,<>,<>,<>,<>,<>,<>,<>" #########

"CUTOFF was made on ROOT. job on hand: <290>. lower bound=300 is bigger or equal than best solution so far=300"

"-----------END 2 from 10-----------------------------------------"

"--------------------START 3 from 10--------------------------------"

input selected: (48, 47, 44, 42, 42, 39, 37, 37, 33, 32, 31, 30, 25, 25, 22, 20, 19, 18, 18, 17, 12, 10, 10, 9, 8, 7, 6, 5, 2, 1) size 30 sum 696

perfectSplit 79.6 pMax 49 pigeonholePrinciple 18

#########bestSolutionFound just got replaced "Target function=82 Number of Machines=10 . Content: <48,17,7>,<47,18,6,1>,<44,19,9>,<42,20,10>,<42,18,12>,<39,22,10>,<37,25,8,2>,<37,25,5>,<33,30>,<32,31>" #########

#########bestSolutionFound just got replaced "Target function=81 Number of Machines=10 . Content: <48,22,1>,<47,20,2>,<44,25>,<42,25>,<42,19,9>,<39,31>,<37,33>,<37,32>,<30,18,18,5>,<17,12,10,10,8,7,6>" #########

#########bestSolutionFound just got replaced "Target function=80 Number of Machines=10 . Content: <48,22>,<47,18,5>,<44,25,1>,<42,25,2>,<42,20,8>,<39,31>,<37,33>,<37,32>,<30,19,12,9>,<18,17,10,10,7,6>" #########

BEST FOUND: "Target function=80 Number of Machines=10 . Content: <48,22>,<47,18,5>,<44,25,1>,<42,25,2>,<42,20,8>,<39,31>,<37,33>,<37,32>,<30,19,12,9>,<18,17,10,10,7,6>"

nodes seen: 40322 . run time: 0.713 seconds

"-----------END 3 from 10-----------------------------------------"

"--------------------START 4 from 10--------------------------------"

input selected: (730, 620, 600, 525, 510, 490, 425, 415, 335, 330, 325, 320, 310, 310, 290, 270, 210, 190, 190, 170, 150, 140, 120, 110, 90, 90, 90, 80, 50, 10) size 30 sum 8495

perfectSplit 859.5 pMax 731 pigeonholePrinciple 150

#########bestSolutionFound just got replaced "Target function=880 Number of Machines=10 . Content: <730,120,10>,<620,190,50>,<600,190,80>,<525,210,110>,<510,270,90>,<490,290,90>,<425,310,90>,<415,310,140>,<335,330,150>,<325,320,170>" #########

#########bestSolutionFound just got replaced "Target function=875 Number of Machines=10 . Content: <730,120,10>,<620,210>,<600,170,90>,<525,335>,<510,330>,<490,325,50>,<425,415>,<320,310,190>,<310,290,150,110>,<270,190,140,90,90,80>" #########

#########bestSolutionFound just got replaced "Target function=870 Number of Machines=10 . Content: <730,80,50>,<620,210,10>,<600,170,90>,<525,335>,<510,330>,<490,325>,<425,415>,<320,310,140,90>,<310,290,150,110>,<270,190,190,120,90>" #########

1000000 nodes so far ; active 19 ; deleted 999981

2000000 nodes so far ; active 27 ; deleted 1999973

3000000 nodes so far ; active 23 ; deleted 2999977

4000000 nodes so far ; active 26 ; deleted 3999974

5000000 nodes so far ; active 27 ; deleted 4999973

6000000 nodes so far ; active 26 ; deleted 5999974

7000000 nodes so far ; active 26 ; deleted 6999974

8000000 nodes so far ; active 26 ; deleted 7999974

9000000 nodes so far ; active 25 ; deleted 8999975

10000000 nodes so far ; active 27 ; deleted 9999973

11000000 nodes so far ; active 26 ; deleted 10999974

12000000 nodes so far ; active 27 ; deleted 11999973

13000000 nodes so far ; active 26 ; deleted 12999974

14000000 nodes so far ; active 27 ; deleted 13999973

15000000 nodes so far ; active 28 ; deleted 14999972

16000000 nodes so far ; active 26 ; deleted 15999974

17000000 nodes so far ; active 27 ; deleted 16999973

18000000 nodes so far ; active 26 ; deleted 17999974

19000000 nodes so far ; active 26 ; deleted 18999974

#########bestSolutionFound just got replaced "Target function=865 Number of Machines=10 . Content: <730,120>,<620,140,90>,<600,170,80>,<525,330>,<510,335,10>,<490,310,50>,<425,415>,<325,320,210>,<310,290,150,90>,<270,190,190,110,90>" #########

20000000 nodes so far ; active 26 ; deleted 19999974

21000000 nodes so far ; active 26 ; deleted 20999974

22000000 nodes so far ; active 25 ; deleted 21999975

23000000 nodes so far ; active 25 ; deleted 22999975

24000000 nodes so far ; active 26 ; deleted 23999974

25000000 nodes so far ; active 25 ; deleted 24999975

26000000 nodes so far ; active 25 ; deleted 25999975

27000000 nodes so far ; active 23 ; deleted 26999977

28000000 nodes so far ; active 27 ; deleted 27999973

29000000 nodes so far ; active 26 ; deleted 28999974

30000000 nodes so far ; active 27 ; deleted 29999973

31000000 nodes so far ; active 27 ; deleted 30999973

32000000 nodes so far ; active 25 ; deleted 31999975

33000000 nodes so far ; active 27 ; deleted 32999973

34000000 nodes so far ; active 25 ; deleted 33999975

35000000 nodes so far ; active 22 ; deleted 34999978

36000000 nodes so far ; active 24 ; deleted 35999976

37000000 nodes so far ; active 22 ; deleted 36999978

38000000 nodes so far ; active 24 ; deleted 37999976

39000000 nodes so far ; active 25 ; deleted 38999975

40000000 nodes so far ; active 26 ; deleted 39999974

41000000 nodes so far ; active 26 ; deleted 40999974

42000000 nodes so far ; active 25 ; deleted 41999975

43000000 nodes so far ; active 23 ; deleted 42999977

44000000 nodes so far ; active 27 ; deleted 43999973

45000000 nodes so far ; active 25 ; deleted 44999975

46000000 nodes so far ; active 28 ; deleted 45999972

47000000 nodes so far ; active 26 ; deleted 46999974

48000000 nodes so far ; active 26 ; deleted 47999974

49000000 nodes so far ; active 27 ; deleted 48999973

50000000 nodes so far ; active 27 ; deleted 49999973

51000000 nodes so far ; active 26 ; deleted 50999974

52000000 nodes so far ; active 27 ; deleted 51999973

53000000 nodes so far ; active 26 ; deleted 52999974

54000000 nodes so far ; active 27 ; deleted 53999973

55000000 nodes so far ; active 26 ; deleted 54999974

56000000 nodes so far ; active 21 ; deleted 55999979

57000000 nodes so far ; active 27 ; deleted 56999973

58000000 nodes so far ; active 27 ; deleted 57999973

59000000 nodes so far ; active 25 ; deleted 58999975

60000000 nodes so far ; active 25 ; deleted 59999975

61000000 nodes so far ; active 25 ; deleted 60999975

62000000 nodes so far ; active 26 ; deleted 61999974

63000000 nodes so far ; active 24 ; deleted 62999976

64000000 nodes so far ; active 27 ; deleted 63999973

65000000 nodes so far ; active 24 ; deleted 64999976

66000000 nodes so far ; active 25 ; deleted 65999975

67000000 nodes so far ; active 26 ; deleted 66999974

68000000 nodes so far ; active 28 ; deleted 67999972

69000000 nodes so far ; active 25 ; deleted 68999975

70000000 nodes so far ; active 26 ; deleted 69999974

71000000 nodes so far ; active 27 ; deleted 70999973

72000000 nodes so far ; active 27 ; deleted 71999973

73000000 nodes so far ; active 27 ; deleted 72999973

74000000 nodes so far ; active 27 ; deleted 73999973

75000000 nodes so far ; active 24 ; deleted 74999976

76000000 nodes so far ; active 26 ; deleted 75999974

77000000 nodes so far ; active 25 ; deleted 76999975

78000000 nodes so far ; active 21 ; deleted 77999979

79000000 nodes so far ; active 27 ; deleted 78999973

80000000 nodes so far ; active 26 ; deleted 79999974

81000000 nodes so far ; active 26 ; deleted 80999974

82000000 nodes so far ; active 26 ; deleted 81999974

83000000 nodes so far ; active 25 ; deleted 82999975

84000000 nodes so far ; active 27 ; deleted 83999973

85000000 nodes so far ; active 25 ; deleted 84999975

86000000 nodes so far ; active 25 ; deleted 85999975

87000000 nodes so far ; active 25 ; deleted 86999975

88000000 nodes so far ; active 27 ; deleted 87999973

89000000 nodes so far ; active 25 ; deleted 88999975

90000000 nodes so far ; active 26 ; deleted 89999974

91000000 nodes so far ; active 25 ; deleted 90999975

92000000 nodes so far ; active 26 ; deleted 91999974

93000000 nodes so far ; active 27 ; deleted 92999973

94000000 nodes so far ; active 26 ; deleted 93999974

95000000 nodes so far ; active 26 ; deleted 94999974

96000000 nodes so far ; active 26 ; deleted 95999974

97000000 nodes so far ; active 27 ; deleted 96999973

98000000 nodes so far ; active 25 ; deleted 97999975

99000000 nodes so far ; active 22 ; deleted 98999978

100000000 nodes so far ; active 27 ; deleted 99999973

101000000 nodes so far ; active 25 ; deleted 100999975

102000000 nodes so far ; active 26 ; deleted 101999974

103000000 nodes so far ; active 27 ; deleted 102999973

104000000 nodes so far ; active 25 ; deleted 103999975

105000000 nodes so far ; active 28 ; deleted 104999972

106000000 nodes so far ; active 26 ; deleted 105999974

107000000 nodes so far ; active 27 ; deleted 106999973

108000000 nodes so far ; active 27 ; deleted 107999973

109000000 nodes so far ; active 24 ; deleted 108999976

110000000 nodes so far ; active 26 ; deleted 109999974

111000000 nodes so far ; active 27 ; deleted 110999973

112000000 nodes so far ; active 26 ; deleted 111999974

113000000 nodes so far ; active 25 ; deleted 112999975

114000000 nodes so far ; active 28 ; deleted 113999972

#########bestSolutionFound just got replaced "Target function=860 Number of Machines=10 . Content: <730,120>,<620,140,90>,<600,170,80>,<525,325>,<510,335>,<490,310,50>,<425,415,10>,<330,310,210>,<320,290,150,90>,<270,190,190,110,90>" #########

BEST FOUND: "Target function=860 Number of Machines=10 . Content: <730,120>,<620,140,90>,<600,170,80>,<525,325>,<510,335>,<490,310,50>,<425,415,10>,<330,310,210>,<320,290,150,90>,<270,190,190,110,90>"

nodes seen: 114175152 . run time: 2166.79 seconds

"-----------END 4 from 10-----------------------------------------"

"--------------------START 5 from 10--------------------------------"

input selected: (2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2) size 32 sum 64

perfectSplit 16.4 pMax 3 pigeonholePrinciple 18

#########bestSolutionFound just got replaced "Target function=18 Number of Machines=10 . Content: <2,2,2,2>,<2,2,2,2>,<2,2,2>,<2,2,2>,<2,2,2>,<2,2,2>,<2,2,2>,<2,2,2>,<2,2,2>,<2,2,2>" #########

"CUTOFF was made on ROOT. job on hand: <2>. lower bound=18 is bigger or equal than best solution so far=18"

"-----------END 5 from 10-----------------------------------------"

"--------------------START 6 from 10--------------------------------"

input selected: (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1) size 36 sum 36

perfectSplit 13.6 pMax 2 pigeonholePrinciple 14

#########bestSolutionFound just got replaced "Target function=14 Number of Machines=10 . Content: <1,1,1,1>,<1,1,1,1>,<1,1,1,1>,<1,1,1,1>,<1,1,1,1>,<1,1,1,1>,<1,1,1>,<1,1,1>,<1,1,1>,<1,1,1>" #########

"CUTOFF was made on ROOT. job on hand: <1>. lower bound=14 is bigger or equal than best solution so far=14"

"-----------END 6 from 10-----------------------------------------"

"--------------------START 7 from 10--------------------------------"

input selected: (2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1) size 40 sum 64

perfectSplit 16.4 pMax 3 pigeonholePrinciple 14

#########bestSolutionFound just got replaced "Target function=17 Number of Machines=10 . Content: <2,2,2,1>,<2,2,2,1>,<2,2,2,1>,<2,2,2,1>,<2,2,1,1>,<2,2,1,1>,<2,2,1,1>,<2,2,1,1>,<2,2,1,1>,<2,2,1,1>" #########

"CUTOFF was made on ROOT. job on hand: <2>. lower bound=17 is bigger or equal than best solution so far=17"

"-----------END 7 from 10-----------------------------------------"

"--------------------START 8 from 10--------------------------------"

input selected: (3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1) size 36 sum 81

perfectSplit 18.1 pMax 4 pigeonholePrinciple 14

#########bestSolutionFound just got replaced "Target function=19 Number of Machines=10 . Content: <3,3,2,1>,<3,3,2>,<3,3,2>,<3,3,2>,<3,3,2>,<3,3,1,1>,<3,3,1,1>,<3,3,1,1>,<3,2,2,1>,<3,2,2,1>" #########

"CUTOFF was made on ROOT. job on hand: <3>. lower bound=19 is bigger or equal than best solution so far=19"

"-----------END 8 from 10-----------------------------------------"

"--------------------START 9 from 10--------------------------------"

input selected: (100, 90, 80, 70, 60, 50, 40, 30, 20, 10, 5, 5, 5, 5, 5, 4, 4, 4, 4, 4, 3, 3, 3, 3, 3, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1) size 35 sum 625

perfectSplit 72.5 pMax 101 pigeonholePrinciple 14

#########bestSolutionFound just got replaced "Target function=110 Number of Machines=10 . Content: <100>,<90,10>,<80,20>,<70,30>,<60,40>,<50,5,5,5,5,5,4,4,4,4,4,3,2>,<3,3,3,3,2,2,2,2,1,1,1,1,1>,<>,<>,<>" #########

"CUTOFF was made on ROOT. job on hand: <100>. lower bound=110 is bigger or equal than best solution so far=110"

"-----------END 9 from 10-----------------------------------------"

"--------------------START 10 from 10--------------------------------"

input selected: (100, 90, 80, 70, 60, 50, 40, 30, 20, 10, 5, 5, 5, 5, 5, 4, 4, 4, 4, 4, 3, 3, 3, 3, 3, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1) size 35 sum 625

perfectSplit 72.5 pMax 101 pigeonholePrinciple 14

#########bestSolutionFound just got replaced "Target function=110 Number of Machines=10 . Content: <100>,<90,10>,<80,20>,<70,30>,<60,40>,<50,5,5,5,5,5,4,4,4,4,4,3,2>,<3,3,3,3,2,2,2,2,1,1,1,1,1>,<>,<>,<>" #########

"CUTOFF was made on ROOT. job on hand: <100>. lower bound=110 is bigger or equal than best solution so far=110"

"-----------END 10 from 10-----------------------------------------"