

1 PRIEDAS

PROGRAMA MaxFopt 1.02

Duomenų failo versija: 1.3

SKAICIAVIMAS PRADETA: Mon May 18 13:36:58 2009

BL. 1 PRADINIŲ DUOMENŲ ĮVEDIMAS

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IEIL      =      17
MM        =      24
ITASK     =      12
MOMSIZE   =      12
FSIZE     =       1
BSUMU     =       0
TAKSIZE   =       6
MAXIT     =     100
MAXTIME   =    3600 s
EPS       =    0.01600
DELTA     =    0.00000
ETA       =    0.01100
TMZ       =    0.00005
ALIET     =    0.10000
LIAMDAUG=  0.00100
UDAUG     =    20.00000
FDAUG     =    100.00
FANDAUG   =      0.99
    
```

ALFA(MM, IEIL)*FDAUG - TAMPRIŲ IRAZŲ INFLUENTINĖ MATRICA

	1	2	3	4	5
6					
1	0.10610E+03	0.00000E+00	0.71054E-12	0.00000E+00	0.00000E+00
2	-0.18136E+02	0.29980E+02	0.16218E+02	0.20381E+02	-0.35877E+02
3	0.39908E+02	0.68086E+01	0.75180E+01	0.99255E+01	-0.19116E+02
4	-0.67145E+02	0.31539E+02	0.35970E+02	0.19006E+02	-0.50030E+02
5	0.17328E+02	0.73096E+01	0.70963E+01	0.10829E+02	-0.25636E+02
6	0.14693E+02	0.14174E+02	0.80285E+01	0.14439E+02	-0.26397E+02
7	0.17328E+02	0.73096E+01	0.70963E+01	0.10829E+02	0.18269E+02
8	-0.16003E+02	0.19419E+02	0.19616E+02	0.16168E+02	-0.16872E+02
9	0.94444E+01	0.61106E+01	0.59944E+01	0.80290E+01	0.99571E+01
10	-0.17016E+02	0.16369E+02	0.16578E+02	0.12912E+02	-0.17940E+02
11	0.53324E+01	0.47450E+01	0.46793E+01	0.58281E+01	0.56219E+01
12	-0.67151E+01	0.12819E+02	0.12902E+02	0.11455E+02	-0.70797E+01
13	0.53324E+01	0.47450E+01	0.46793E+01	0.58281E+01	0.56219E+01
14	-0.92589E+01	0.13183E+02	0.13297E+02	0.11302E+02	-0.97616E+01

15	0.30549E+01	0.34115E+01	0.33739E+01	0.40321E+01	0.32207E+01
0.40248E+01					
16	-0.88640E+01	0.11087E+02	0.11196E+02	0.92869E+01	-0.93452E+01
0.93080E+01					
17	0.16146E+01	0.21748E+01	0.21549E+01	0.25028E+01	0.17023E+01
0.24989E+01					
18	-0.59570E+01	0.92822E+01	0.93555E+01	0.80722E+01	-0.62805E+01
0.80864E+01					
19	0.16146E+01	0.21748E+01	0.21549E+01	0.25028E+01	0.17023E+01
0.24989E+01					
20	-0.64559E+01	0.93333E+01	0.94127E+01	0.80219E+01	-0.68064E+01
0.80373E+01					
21	0.66653E+00	0.10403E+01	0.10321E+01	0.11757E+01	0.70271E+00
0.11741E+01					
22	-0.61244E+01	0.78089E+01	0.78843E+01	0.65649E+01	-0.64569E+01
0.65795E+01					
23	0.88818E-13	0.00000E+00	0.00000E+00	-0.44409E-13	0.00000E+00
-0.44409E-13					
24	-0.49481E+01	0.65669E+01	0.66278E+01	0.55618E+01	-0.52168E+01
0.55736E+01					

	7	8	9	10	11
12					

1	0.71054E-12	0.00000E+00	-0.14211E-11	0.35527E-12	0.35527E-12
0.35527E-12					
2	0.15097E+02	0.85732E+01	-0.24829E+02	0.88816E+01	0.88646E+01
0.40139E+01					
3	0.80435E+01	0.45679E+01	-0.13229E+02	0.47321E+01	0.47231E+01
0.21386E+01					
4	0.21052E+02	0.11955E+02	-0.34623E+02	0.12385E+02	0.12361E+02
0.55973E+01					
5	0.10787E+02	0.61260E+01	-0.17741E+02	0.63463E+01	0.63342E+01
0.28682E+01					
6	0.11108E+02	0.63079E+01	-0.18268E+02	0.65348E+01	0.65223E+01
0.29533E+01					
7	0.10787E+02	0.61260E+01	-0.17741E+02	0.63463E+01	0.63342E+01
0.28682E+01					
8	0.47405E+01	0.16006E+02	-0.24402E+02	0.87291E+01	0.87124E+01
0.39450E+01					
9	0.86476E+01	0.78362E+01	-0.19317E+02	0.69099E+01	0.68967E+01
0.31229E+01					
10	0.17481E+02	0.61706E+01	-0.24605E+02	0.88016E+01	0.87847E+01
0.39778E+01					
11	0.57731E+01	0.71747E+01	-0.20138E+02	0.72039E+01	0.71901E+01
0.32557E+01					
12	0.41443E+01	0.13093E+02	-0.22546E+02	0.80652E+01	0.80498E+01
0.36450E+01					
13	0.57731E+01	0.71747E+01	0.75406E+01	0.72039E+01	0.71901E+01
0.32557E+01					
14	0.11398E+02	0.89637E+01	-0.13093E+02	0.89131E+01	-0.14481E+01
0.11521E+02					
15	0.40005E+01	0.48035E+01	0.43199E+01	0.48202E+01	0.53212E+01
0.40713E+01					
16	0.93784E+01	0.70484E+01	-0.12535E+02	0.70000E+01	0.11484E+02
0.75812E+00					
17	0.24861E+01	0.29105E+01	0.22832E+01	0.29193E+01	0.29067E+01
0.34634E+01					
18	0.81337E+01	0.65678E+01	-0.84239E+01	0.65353E+01	-0.10945E+01
0.95981E+01					
19	0.24861E+01	0.29105E+01	0.22832E+01	0.29193E+01	0.29067E+01
0.34634E+01					

20	0.80886E+01	0.63916E+01	-0.91294E+01	0.63563E+01	0.64067E+01
0.41810E+01					
21	0.11688E+01	0.13441E+01	0.94253E+00	0.13477E+01	0.13425E+01
0.15723E+01					
22	0.66282E+01	0.50183E+01	-0.86606E+01	0.49848E+01	0.50327E+01
0.29213E+01					
23	-0.44409E-13	-0.88818E-13	0.44409E-13	-0.44409E-13	-0.44409E-13
0.00000E+00					
24	0.56129E+01	0.43123E+01	-0.69972E+01	0.42852E+01	0.43239E+01
0.26180E+01					

	13	14	15	16	17

1	-0.71054E-12	0.00000E+00	0.00000E+00	-0.62450E-14	0.00000E+00
2	-0.20520E+02	0.41314E+01	0.41234E+01	-0.52641E-01	-0.18636E+02
3	-0.10933E+02	0.22013E+01	0.21970E+01	-0.28047E-01	-0.99293E+01
4	-0.28615E+02	0.57612E+01	0.57500E+01	-0.73406E-01	-0.25987E+02
5	-0.14663E+02	0.29521E+01	0.29464E+01	-0.37615E-01	-0.13316E+02
6	-0.15098E+02	0.30398E+01	0.30339E+01	-0.38731E-01	-0.13712E+02
7	-0.14663E+02	0.29521E+01	0.29464E+01	-0.37615E-01	-0.13316E+02
8	-0.20168E+02	0.40605E+01	0.40526E+01	-0.51737E-01	-0.18316E+02
9	-0.15965E+02	0.32143E+01	0.32080E+01	-0.40955E-01	-0.14499E+02
10	-0.20336E+02	0.40942E+01	0.40863E+01	-0.52166E-01	-0.18468E+02
11	-0.16644E+02	0.33510E+01	0.33445E+01	-0.42697E-01	-0.15116E+02
12	-0.18634E+02	0.37517E+01	0.37444E+01	-0.47802E-01	-0.16923E+02
13	-0.16644E+02	0.33510E+01	0.33445E+01	-0.42697E-01	-0.15116E+02
14	-0.19054E+02	0.38363E+01	0.38288E+01	-0.48880E-01	-0.17304E+02
15	-0.17020E+02	0.34268E+01	0.34201E+01	-0.43662E-01	-0.15457E+02
16	-0.18989E+02	0.38231E+01	0.38157E+01	-0.48712E-01	-0.17245E+02
17	-0.17258E+02	0.34747E+01	0.34679E+01	-0.44272E-01	-0.15673E+02
18	-0.18509E+02	0.37265E+01	0.37192E+01	-0.47480E-01	-0.16809E+02
19	0.29518E+01	0.34747E+01	0.34679E+01	-0.44272E-01	-0.15673E+02
20	-0.11803E+02	0.41358E+01	-0.56345E+01	0.78234E+01	-0.16884E+02
21	0.12185E+01	0.15769E+01	0.19869E+01	0.49755E+00	-0.15816E+02
22	-0.11197E+02	0.28784E+01	0.72957E+01	-0.32951E+01	-0.16834E+02
23	0.88818E-13	0.44409E-13	-0.44409E-13	0.46491E-13	-0.15915E+02
24	-0.90461E+01	0.25833E+01	-0.51650E+01	0.63415E+01	-0.16658E+02

BETA(IEIL, IEIL) - TAMPRIU POSLINKIU INFLUENTINE MATRICA

	1	2	3	4	5
6					

1	0.87836E-01	-0.26646E-01	-0.27206E-01	-0.14294E-01	0.37125E-01
-0.15622E-01					
2	-0.26646E-01	0.20754E-01	0.20953E-01	0.15570E-01	-0.23923E-01
0.15695E-01					
3	-0.27206E-01	0.20953E-01	0.21388E-01	0.15664E-01	-0.24380E-01
0.15887E-01					
4	-0.14294E-01	0.15570E-01	0.15664E-01	0.12559E-01	-0.16382E-01
0.12522E-01					
5	0.37125E-01	-0.23923E-01	-0.24380E-01	-0.16382E-01	0.39140E-01
-0.16471E-01					
6	-0.15622E-01	0.15695E-01	0.15887E-01	0.12522E-01	-0.16471E-01
0.12559E-01					
7	-0.15621E-01	0.15738E-01	0.15930E-01	0.12565E-01	-0.16470E-01
0.12602E-01					
8	-0.88713E-02	0.10510E-01	0.10619E-01	0.87078E-02	-0.93530E-02
0.87290E-02					
9	0.25692E-01	-0.24843E-01	-0.25160E-01	-0.19625E-01	0.27087E-01
-0.19686E-01					

10	-0.91904E-02	0.10510E-01	0.10623E-01	0.86433E-02	-0.96894E-02
0.86653E-02					
11	-0.91728E-02	0.10516E-01	0.10629E-01	0.86524E-02	-0.96709E-02
0.86743E-02					
12	-0.41535E-02	0.52023E-02	0.52534E-02	0.43586E-02	-0.43790E-02
0.43685E-02					
13	0.21234E-01	-0.24911E-01	-0.25172E-01	-0.20597E-01	0.22387E-01
-0.20648E-01					
14	-0.42751E-02	0.52048E-02	0.52574E-02	0.43364E-02	-0.45072E-02
0.43466E-02					
15	-0.42668E-02	0.51866E-02	0.52391E-02	0.43199E-02	-0.44984E-02
0.43301E-02					
16	0.54471E-04	-0.18063E-04	-0.18734E-04	-0.69990E-05	0.57428E-04
-0.71291E-05					
17	0.19284E-01	-0.23900E-01	-0.24138E-01	-0.19983E-01	0.20331E-01
-0.20029E-01					
	7	8	9	10	11
12					

1	-0.15621E-01	-0.88713E-02	0.25692E-01	-0.91904E-02	-0.91728E-02
-0.41535E-02					
2	0.15738E-01	0.10510E-01	-0.24843E-01	0.10510E-01	0.10516E-01
0.52023E-02					
3	0.15930E-01	0.10619E-01	-0.25160E-01	0.10623E-01	0.10629E-01
0.52534E-02					
4	0.12565E-01	0.87078E-02	-0.19625E-01	0.86433E-02	0.86524E-02
0.43586E-02					
5	-0.16470E-01	-0.93530E-02	0.27087E-01	-0.96894E-02	-0.96709E-02
-0.43790E-02					
6	0.12602E-01	0.87290E-02	-0.19686E-01	0.86653E-02	0.86743E-02
0.43685E-02					
7	0.13039E-01	0.85526E-02	-0.19890E-01	0.87383E-02	0.87472E-02
0.44015E-02					
8	0.85526E-02	0.65523E-02	-0.13137E-01	0.63225E-02	0.63360E-02
0.33097E-02					
9	-0.19890E-01	-0.13137E-01	0.36331E-01	-0.12996E-01	-0.12971E-01
-0.58735E-02					
10	0.87383E-02	0.63225E-02	-0.12996E-01	0.62723E-02	0.62859E-02
0.32870E-02					
11	0.87472E-02	0.63360E-02	-0.12971E-01	0.62859E-02	0.68321E-02
0.29279E-02					
12	0.44015E-02	0.33097E-02	-0.58735E-02	0.32870E-02	0.29279E-02
0.21295E-02					
13	-0.20817E-01	-0.15235E-01	0.30027E-01	-0.15119E-01	-0.15285E-01
-0.79644E-02					
14	0.43805E-02	0.32568E-02	-0.60455E-02	0.32334E-02	0.32668E-02
0.17929E-02					
15	0.43639E-02	0.32424E-02	-0.60337E-02	0.32191E-02	0.32524E-02
0.17814E-02					
16	-0.75616E-05	0.67566E-05	0.77028E-04	0.70543E-05	0.66288E-05
0.25408E-04					
17	-0.20182E-01	-0.15113E-01	0.27270E-01	-0.15008E-01	-0.15159E-01
-0.85105E-02					
	13	14	15	16	17

1	0.21234E-01	-0.42751E-02	-0.42668E-02	0.54471E-04	0.19284E-01
2	-0.24911E-01	0.52048E-02	0.51866E-02	-0.18063E-04	-0.23900E-01
3	-0.25172E-01	0.52574E-02	0.52391E-02	-0.18734E-04	-0.24138E-01
4	-0.20597E-01	0.43364E-02	0.43199E-02	-0.69990E-05	-0.19983E-01
5	0.22387E-01	-0.45072E-02	-0.44984E-02	0.57428E-04	0.20331E-01

6	-0.20648E-01	0.43466E-02	0.43301E-02	-0.71291E-05	-0.20029E-01
7	-0.20817E-01	0.43805E-02	0.43639E-02	-0.75616E-05	-0.20182E-01
8	-0.15235E-01	0.32568E-02	0.32424E-02	0.67566E-05	-0.15113E-01
9	0.30027E-01	-0.60455E-02	-0.60337E-02	0.77028E-04	0.27270E-01
10	-0.15119E-01	0.32334E-02	0.32191E-02	0.70543E-05	-0.15008E-01
11	-0.15285E-01	0.32668E-02	0.32524E-02	0.66288E-05	-0.15159E-01
12	-0.79644E-02	0.17929E-02	0.17814E-02	0.25408E-04	-0.85105E-02
13	0.38820E-01	-0.78157E-02	-0.78005E-02	0.99583E-04	0.35255E-01
14	-0.78157E-02	0.17630E-02	0.17515E-02	0.25789E-04	-0.83755E-02
15	-0.78005E-02	0.17515E-02	0.24068E-02	-0.50454E-03	-0.85275E-02
16	0.99583E-04	0.25789E-04	-0.50454E-03	0.43645E-03	-0.14507E-03
17	0.35255E-01	-0.83755E-02	-0.85275E-02	-0.14507E-03	0.43616E-01

S K A I C I A V I M O R E Z U L T A T A I

IEIL	=	17
MM	=	24
ITASK	=	12
MOMSIZE	=	12
FSIZE	=	1
BSUMU	=	0
TAKSIZE	=	6
MAXIT	=	100
MAXTIME	=	3600 s
IVIRS	=	2
EPS	=	0.01600
DELTA	=	0.00000
ETA	=	0.01100
TMZ	=	0.00005
ALIET	=	0.10000
LIAMDAUG=	0.00100	
UDAUG	=	20.00000
FDAUG	=	100.00
FANDAUG	=	0.99

ITERACIJU 5 AKTYVIU APRIBOJIMU 146 TIKSLO F. 0.1312464E+01 EPSF
0.7022916E-02 ETAF 0.3054071E-10

MATEMATINIO GRIEZTUMO SALYGA LIAMBDA*BT 8.459401012702170E-007

DEMESIO! TOLIAU VISU REZULTATU DIMENSIJOS YRA: [N], [m], [rad]

TIKSLO FUNKCIJOS REIKSME: **131246.418894722**

SEVIRS(MM, IVIRS) + PC(MM) - TAMPRIU IRAZU MATRICA VIRSUNEMS

	1	2
1	-0.15003E-09	-0.23613E-09
2	0.34313E+05	0.58546E+04
3	0.17826E+05	0.31194E+04
4	0.48026E+05	0.81641E+04
5	0.22695E+05	0.41834E+04
6	0.24349E+05	0.43076E+04
7	0.22695E+05	0.41834E+04
8	0.32963E+05	0.57541E+04
9	0.22753E+05	0.45549E+04
10	0.32170E+05	0.58019E+04
11	0.21097E+05	0.47487E+04
12	0.27717E+05	0.53164E+04
13	0.21097E+05	0.47487E+04

14	0.28437E+05	0.54363E+04
15	0.18283E+05	0.48560E+04
16	0.26434E+05	0.54177E+04
17	0.14601E+05	0.49239E+04
18	0.23308E+05	0.52807E+04
19	0.14601E+05	0.49239E+04
20	0.23451E+05	0.53042E+04
21	0.10152E+05	0.49686E+04
22	0.20710E+05	0.52886E+04
23	0.50000E+04	0.50000E+04
24	0.17341E+05	0.52332E+04

UEVIRS(IEIL, IVIRS) + UEPC(IEIL) - TAMPRIU POSLINKIU MATRICA VIRSUNEMS

	1	2

1	-0.29728E-01	0.00000E+00
2	0.31752E-01	0.00000E+00
3	0.32116E-01	0.00000E+00
4	0.25732E-01	0.00000E+00
5	-0.30845E-01	0.00000E+00
6	0.25815E-01	0.00000E+00
7	0.26009E-01	0.00000E+00
8	0.18528E-01	0.00000E+00
9	-0.38739E-01	0.00000E+00
10	0.18421E-01	0.00000E+00
11	0.18542E-01	0.00000E+00
12	0.96172E-02	0.00000E+00
13	-0.44201E-01	0.00000E+00
14	0.95393E-02	0.00000E+00
15	0.95645E-02	0.00000E+00
16	-0.97112E-05	0.00000E+00
17	-0.44566E-01	0.00000E+00

FRIB(FSIZE*2) - OPTIMALUMO KRITERIJAUS RIBINIŲ REIKSMIŲ VEKTORIUS

	1	2

1	0.10000E+07	-0.10000E+02

{FSUP, FINF} - OPTIMALUS SPRENDINYS. APKROVOS KITIMO RIBŲ VEKTORIUS

	1	2

1	0.13124E+06	-0.10000E+02

FSUPFINFKONF(FSIZE*2, IEIL) - OPTIMALIOS APKROVOS MATRICA

	1	2	3	4	5

1	0.00000E+00	0.00000E+00	0.19348E+05	0.25553E+05	0.00000E+00
2	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
3	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
4	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
5	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

	7	8	9	10	11
12					
1	0.37965E+05	0.44172E+05	0.00000E+00	0.00000E+00	0.56583E+05
0.62789E+05					
2	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00
0.00000E+00					

	13	14	15	16	17
1	0.00000E+00	0.00000E+00	0.75200E+05	0.81406E+05	0.00000E+00
2	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00

APKROVOS KITIMO RIBA

1 PASIEKE APATINE RIBA

NENULINIAI VEKTORIAUS LIAMBDA KOMPONENTAI

LIAMBDA(8) = 0.214939E-01; APKROVOS KOMBINACIJA (VIRSUNE) - 1;
 PJUVIS - 2; TAKUMO SALYGA - 2
 LIAMBDA(20) = 0.833646E-03; APKROVOS KOMBINACIJA (VIRSUNE) - 1;
 PJUVIS - 4; TAKUMO SALYGA - 2

SR(MM) - LIEKAMUJU IRAZU VEKTORIUS

	1	2	3	4	5
6					
1	-0.89708E-08	-0.11674E+05	-0.53662E+04	-0.11308E+05	-0.49270E+04
0.64746E+04					

	7	8	9	10	11
12					
1	-0.49270E+04	0.37557E+04	-0.28195E+04	0.45486E+04	-0.15868E+04
0.27172E+04					

	13	14	15	16	17
18					
1	-0.15868E+04	0.27552E+04	-0.90905E+03	0.26377E+04	-0.48047E+03
0.17726E+04					

	19	20	21	22	23
24					
1	-0.48047E+03	0.19211E+04	-0.19834E+03	0.18224E+04	0.32266E-10
0.14724E+04					

URRIB(IEIL*2) - RIBINIŲ POSLINKIŲ REIKŠMIŲ VEKTORIUS

	1	2	3	4	5
6					
1	0.60000E+01	0.60000E+01	0.60000E+01	0.60000E+01	0.60000E+01
0.60000E+01					

	7	8	9	10	11
12					
1	0.60000E+01	0.60000E+01	0.60000E+01	0.60000E+01	0.60000E+01
0.60000E+01					

	13	14	15	16	17
18					
1	0.60000E+01	0.60000E+01	0.60000E+01	0.60000E+01	0.60000E+01
-0.60000E+01					

	19	20	21	22	23
24					
1	-0.60000E+01	-0.60000E+01	-0.60000E+01	-0.60000E+01	-0.60000E+01
-0.60000E+01					

	25	26	27	28	29
30					
1	-0.60000E+01	-0.60000E+01	-0.60000E+01	-0.60000E+01	-0.60000E+01
-0.60000E+01					

	31	32	33	34
1	-0.60000E+01	-0.60000E+01	-0.60000E+01	-0.60000E+01

UR(IEIL) - LIEKAMUJU POSLINKIU VEKTORIUS

	1	2	3	4	5
6					
1	-0.14565E-01	0.69407E-02	0.78948E-02	0.42198E-02	-0.10894E-01
0.46602E-02					

	7	8	9	10	11
12					
1	0.45643E-02	0.27031E-02	-0.76452E-02	0.27348E-02	0.27296E-02
0.12360E-02					

	13	14	15	16	17
1	-0.63186E-02	0.12722E-02	0.12697E-02	-0.16209E-04	-0.57383E-02

QP(MM) - PLASTINIŲ DEFORMACIJŲ VEKTORIUS

	1	2	3	4	5
6					
1	0.41677E-12	-0.82738E-12	0.20147E-12	0.21494E-01	-0.58913E-12
0.39680E-12					

	7	8	9	10	11
12					

1	-0.15011E-11	0.83365E-03	-0.44047E-12	0.53634E-12	0.16684E-11
	-0.23092E-11				
13					
14					
15					
16					
17					
18					

1	0.76174E-13	-0.95754E-13	0.12347E-12	-0.54292E-13	0.48944E-13
	-0.50475E-13				
19					
20					
21					
22					
23					
24					

1	0.82233E-13	-0.36917E-13	0.20474E-13	0.52284E-13	0.21426E-13
	-0.96076E-13				

SKAICIAVIMAS BAIGTAS: Mon May 18 13:36:59 2009

Papildomai apribojant 2 suminį poslinkį iki 0,037m gauta tokia tikslo funkcija:

ITERACIJU 4 AKTYVIU APRIBOJIMU 146 TIKSLO F. 0.1278641E+01 EPSF -
0.3255469E+00 ETAF 0.8375846E-12

MATEMATINIO GRIEZTUMO SALYGA LIAMBDA*BT -6.410921838694113E-008

DEMESIO! TOLIAU VISU REZULTATU DIMENSIJOS YRA: [N], [m], [rad]

TIKSLO FUNKCIJOS REIKSME: **127864.145498039**