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Usage of CRG_RERENDER

Introducing the usage of crg_rerender. Examples are included. The file comments are optimized for the matlab publishing makro.

```
%
    Copyright 2005-2011 OpenCRG - VIRES Simulationstechnologie GmbH -
%
   Holger Helmich
%
%
   Licensed under the Apache License, Version 2.0 (the "License");
%
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at
%
%
       http://www.apache.org/licenses/LICENSE-2.0
%
   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
    See the License for the specific language governing permissions and
    limitations under the License.
```

```
%
% More Information on OpenCRG open file formats and tools can be found at
%
    http://www.opencrg.org
%
% $Id: crg_test_map_rerender.m 1 2011-06-08 11:36:00Z hhelmich $
```

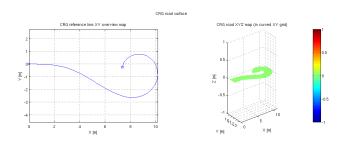
Test proceedings

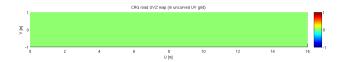
- $\bullet\,$ generate 0-z-crg file
- \bullet add z-values (optional)
- rerender crgdisplay result

% DEFAULT SETTINGS % clear enviroment clear all; close all;

```
c = { 3
           { 0 -0.2/3 }
                                     % klothoide
     ; 5
           {-0.2
                   0.4/5 } ...
                                    % turning klothoide
    ; 8
           { 0.4
                  0.4/8 } ...
                                     % circle
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, 0.4 );
crg_show(data);
                                                     2011-06-08 11:39:40
                                                     2011-06-08 11:39:41
```

Test1 (different uinc)





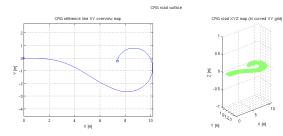
<ur>
 unknown CRG file name>
 2011-06-08 11:39:42

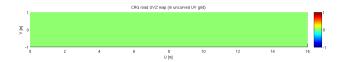
| Marie | Mari

<unknown CRG file name> 2011-08-08 11:39:43

```
c = { 3
            { 0 -0.2/3 }
                                     % klothoide
     ; 5
            {-0.2
                   0.4/5 } ...
                                    % turning klothoide
    ; 8
};
            { 0.4
                   0.4/8 } ...
                                     % circle
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, [0.01, 0.2] );
crg_show(data);
                                                      2011-06-08 11:39:47
                                                      2011-06-08 11:39:47
```

Test2 (different vinc)





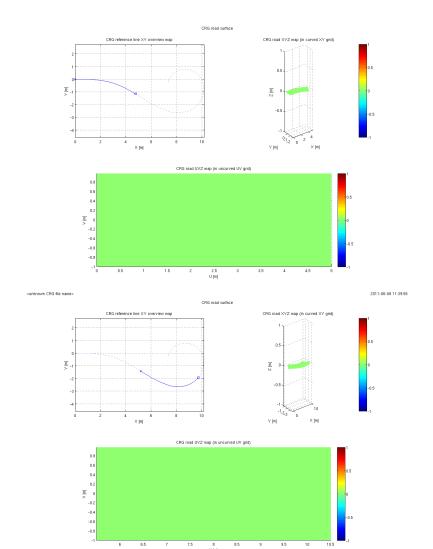
× [m]

<unknown CRG file name> 2011-06-08 11:39:48

<unknown CRG file name> 2011-06-08 11:39:49

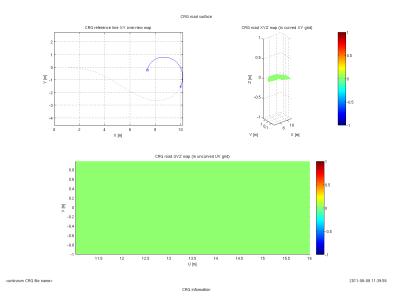
```
c = { 3
                 { 0 -0.2/3 }
                                                        % klothoide
       ; 5
                 {-0.2
                              0.4/5 }
                                                       % turning klothoide
       ; 8
                 { 0.4
                            0.4/8 } ...
                                                        % circle
      };
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, [0.005, 0.03] );
crg_show(data);
                                                                               2011-06-08 11:39:53
<unknown CRG file name:
                                               E 0
                                 at u = 0
at u = 1.78
at u = 3.58
at u = 5.34
at u = 7.12
at u = 8.9
at u = 12.46
at u = 14.24
at u = 16.005
                                                                               2011-06-08 11:39:54
```

Test3 (different uinc, vinc)



unknown CRG file name>

2011-06-08 11:39:56

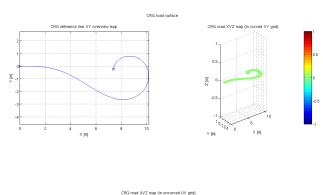


Section with time of the content of

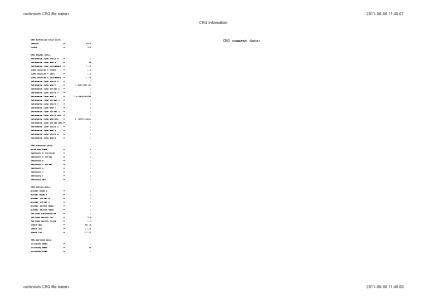
2011-06-08 11:40:00

```
Test4 ( different v )
c = { 3
           { 0 -0.2/3 }
                                   % klothoide
    ; 5
           {-0.2
                  0.4/5 } ...
                                   % turning klothoide
    ; 8
};
           { 0.4
                  0.4/8 } ...
                                   % circle
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, [], 0.5 );
crg_show(data);
                                                   2011-06-08 11:40:05
                              (E)
```

2011-06-08 11:40:06

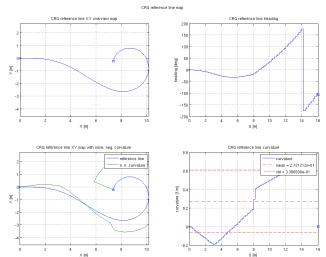






```
Test5 (interpolation method)
```

crg_show(data);



CRG elevation grid criss sections - w/o steps & banking & offset

CRG elevation grid long sections - w/o steps & banking & offset

CRG elevation grid long sections - w/o steps & banking & offset

CRG elevation grid long sections - w/o steps & banking & offset

CRG elevation grid long sections - w/o steps & banking & offset

CRG elevation grid long sections - w/o steps & banking & offset

CRG elevation grid long sections - w/o steps & banking & offset

SRG elevation grid long sections - w/o steps & banking & offset

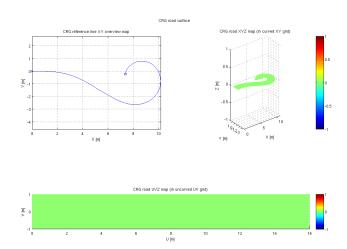
SRG elevation grid long sections - w/o steps & banking & offset

SRG elevation grid long sections - w/o steps & banking & offset

SRG elevation grid long sections - w/o steps & banking & offset

SRG elevation grid long sections - w/o steps & banking & offset

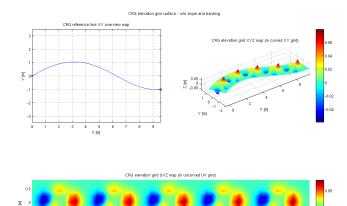
 -unknown CRG file name>
 2011-08-08 11-40:13



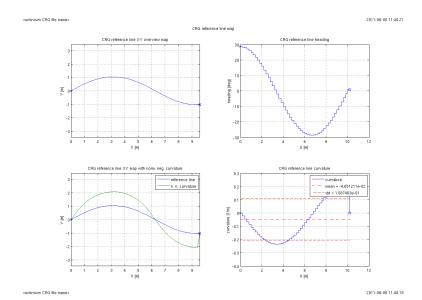
| March | Marc

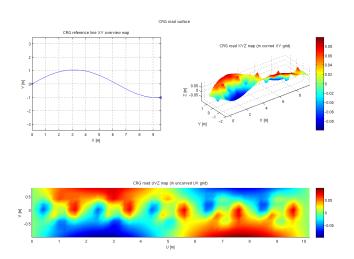
-unknown CRG file name> 2011-08-08 11:40:15

```
Test6 (incl. z-values)
dat1 = crg_read('demo7.crg');
data = crg_rerender( dat1, [0.2, 0.2] );
crg_show(data);
                  CRG reference line XYZ map
                                                                       2011-06-08 11:40:19
 unknown CRG file name>
                                                                       2011-06-08 11:40:20
```



U [m]





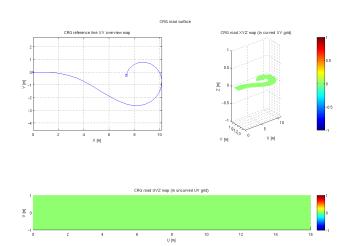
<unknown CRG file name> 2011-06-08 11-40.21

| March | Marc

 -unknown CRG file name>
 2011-06-08 11:40:22

```
0 -0.2/3 }
c = { 3
           {
                                     % klothoide
     ; 5
           {-0.2
                   0.4/5 }
                                     % turning klothoide
   ; 8
};
           { 0.4
                   0.4/8 } ...
                                      % circle
dat1 = crg_gen_csb2crg0([], 16, 1, c);
data = crg_rerender( dat1, 0.5 );
crg_show(data);
                                                      2011-06-08 11:40:27
                                                      2011-06-08 11:40:28
```

Test7 (try uinc > 0.45)



CRG information

CRG information

CRG information

CRG counsert data:



 <unknown CRG file name>
 2011-06-08 11:40:29

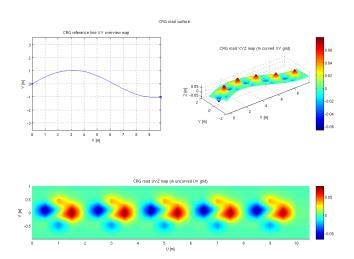
```
Test8 ( real case: )
dat1 = crg_read('../crg-bin/country_road.crg');
data = crg_rerender(dat1, 0.4);
crg_show(data);
```

```
Test9 ( no curvature )
dat = crg_read('demo1.crg');
data = crg_rerender(dat, 0.5);
crg_show(data);
```

Test10 (curvature) dat = crg_read('demo6.crg'); data = crg_rerender(dat, 0.5); crg_show(data); curvature :-mean = -4.031075e-0 -std = 1.595365e-01 2011-06-08 11:40:53 <unknown CRG file name>

2011-08-08 11:40:54

<unknown CRG file name>



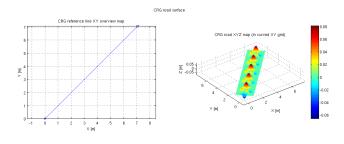
 -unknown CRG file name>
 2011-06-08 11:40:55

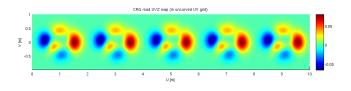
<uninformation CRG file name> 2011-06-08 11:40:56

Test11 (constant curvature)

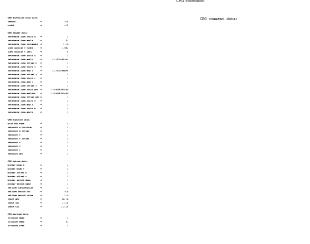
```
dat = crg_read('demo4.crg');
data = crg_rerender(dat, 0.05);
```

crg_show(data);





- curinnew CRG file name>
 2011-06-08 1141:02



<ur>
 cursknown CRG file name>
 2011-06-08 11-41.0