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1 //** $File: .....: dil_tutor_1.js
2 //** $Info: .....: Example of math operation on the images.
3 //** $Revision: .....: 0.0.1
4 //** $Date: .....: December 30 2004
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6 //** $Company: .....: DTA srl
7 //** $License: .....: This file is part of an example program for Qj. This example program may be used, distributed and modified without limitation.
8 //** $History: .....:
9
10 var numOfImages = 11; // Global constant
11
12 // Create an array as container of some image classes
13 var img = Array(numOfImages);
14
15 // Create a multiframe monochrome image (16 images)
16 img[0] = new DIL(MainWidget()); img[0].openFrames(DIL.savePath() + "multiframe.dimf", 128, 128, 16, DIL.UNSIGNED_16);
17
18 // Create a single color image frame
19 img[1] = new DIL(MainWidget()); img[1].openFrame(DIL.savePath() + "color.dimf", 512, 512, DIL.RGB_16);
20
21 // Basic I/O class
22 var sys = new System();
23
24 // Create some images for test
25 for(c = 2; c < numOfImages; c++)
26 {
27     img[c] = new DIL(MainWidget()); // DIL base class
28     var fileName = sys.sprintf("%simg%d.dimf", DIL.savePath(), c); // Build the image name with the ViSTA default pathname
29     img[c].openFrame(fileName, 128, 128, DIL.SIGNED_16); // Create the image
30 }
31
32 // Examples of image algebra -----
33 // You can do operations with an immediate value or between images
34 // also is present a complete list math function library dedicated to the images.
35 //
36 img[2] = 314;
37 if(img[2] == 314) →sys.printf("1st assignment correct = 314\n"); else sys.printf("1st assignment fail\n");
38
39 img[3] = img[2] + 25;
40 if(img[3] == 339) →sys.printf("2nd assignment correct = 339\n"); else sys.printf("2nd assignment fail\n");
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41
42 img[4] = img[3] - img[2] + 25;
43 if(img[4] == 50) → sys.printf("3th assignment correct = 50\n"); → else sys.printf("3rd assignment fail\n");
44
45 img[5] = img[2] / img[4];
46 if(img[5] == 6) → sys.printf("4th assignment correct = 6\n"); → else sys.printf("4th assignment fail\n");
47
48 img[6] = img[2] / img[4] + img[4];
49 if(img[6] == 56) → sys.printf("5th assignment correct = 56\n"); → else sys.printf("5th assignment fail\n");
50
51 img[7] = 211 + img[3] / 2 - img[5];
52 if(img[7] == 374) → sys.printf("6th assignment correct = 374\n"); else sys.printf("6th assignment fail\n");
53
54 img[8] = img[3];
55 img[8] *= 37;
56 img[8] += img[4] * 3;
57 img[8] >>= 2;
58 if(img[8] == 3173) → sys.printf("7th assignment correct = 3173\n"); else sys.printf("7th assignment fail\n");
59
60 // Update all image display
61 for(c = 2; c < numOfImages; c++)
62 → img[c].regen();
63
64
65
```
