

```

193 }
194
195 static boolean isLocalMax (FloatProcessor fp, int u, int v)
196 {
197     int w = fp.getWidth();
198     int h = fp.getHeight();
199     if (u<=0 || u>=w-1 || v<=0 || v>=h-1)
200         return false;
201     else {
202         float[] pix = (float[]) fp.getPixels();
203         int i0 = (v-1)*w+u, i1 = v*w+u, i2 = (v+1)*w+u;
204         float cp = pix[i1];
205         return
206             cp >= pix[i0-1] && cp >= pix[i0] && cp >= pix[i0+1] &&
207             cp >= pix[i1-1] && cp >= pix[i1+1] &&
208             cp >= pix[i2-1] && cp >= pix[i2] && cp >= pix[i2+1] ;
209     }
210 }
211 }

```

D.1.3 File HarrisCornerPlugin_.java

```

1 import ij.IJ;
2 import ij.ImagePlus;
3 import ij.gui.GenericDialog;
4 import ij.plugin.filter.PlugInFilter;
5 import ij.process.ImageProcessor;
6
7 public class HarrisCornerPlugin_ implements PlugInFilter {
8     ImagePlus imp;
9     static float alpha = HarrisCornerDet.DEFAULT_ALPHA;
10    static int threshold = HarrisCornerDet.DEFAULT_THRESHOLD;
11    static int nmax = 0; //points to show
12
13    public int setup(String arg, ImagePlus imp) {
14        IJ.register(HarrisCornerPlugin_.class);
15        this.imp = imp;
16        if (arg.equals("about")) {
17            showAbout();
18            return DONE;
19        }
20        return DOES_8G + NO_CHANGES;
21    }
22
23    public void run(ImageProcessor ip) {
24        if (!showDialog()) return;
25        //dialog was cancelled or error occurred
26        HarrisCornerDet hcd = new HarrisCornerDet(ip,alpha,
            threshold);

```