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170 static void psycho_3_fft(FLOAT sample[BLKSIZE], FLOAT energy[BLKSIZE])
171 {
172     FLOAT x_real[BLKSIZE];
173     int i;
174     static int init = 0;
175     static FLOAT window[FFT_SIZE];
176
177     /* calculate window function for the Fourier transform */
178     if (!init) {
179         //FLOAT sqrt_8_over_3 = pow(8.0 / 3.0, 0.5);
180         for (i = 0; i < BLKSIZE; i++) {
181             //window[i] = sqrt_8_over_3 * 0.5 * (1 - cos(2.0 * PI * i / (BLKSIZE))) / BLKSIZE;
182             window[i] = tabcos_psycho_3_fft[i];
183         }
184         init=1;
185     }
186
187     /* convolve the samples with the hann window */
188     for (i = 0; i < BLKSIZE; i++)
189         x_real[i] = (FLOAT) (sample[i] * window[i]);
190     /* do the FFT */
191     twolame_psycho_1_fft(x_real, energy, BLKSIZE);
192 }

```