Wavelet parellelizing speed test

```
N = 10;
freqs = logspace(log10(0.002),log10(0.1),50)';
t = zeros(N,1);
for i=1:N
    tic;
    x = rand(10000,1);
    W = eqn_wavelet_morlet(x,1,freqs,6);
    t(i) = toc;
end
disp(['Normal Wavelet <dt> = ',num2str(mean(t)*1000),' ms']);
t = zeros(N,1);
for i=1:N
    tic;
    x = rand(10000,1);
    W = eqn_wavelet_parmorlet(x,1,freqs,6);
    t(i) = toc;
end
disp(['Parallelized Wavelet <dt> = ',num2str(mean(t)*1000),' ms']);
```

```
Normal Wavelet <dt> = 74.6719 ms
Parallelized Wavelet <dt> = 90.7288 ms
```

Conclusion: in a dual-core laptop, parallelizing DOES NOT improve things. The new processes that take care of parallel computing take up the time gained by parallelizing.

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