Support the Cancellation of a Background Worker Thread

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Start

```
//File:Window.xaml.cs
using System;
using System.ComponentModel;
using System.Windows;
namespace WpfApplication1
{
public partial class Window1 : Window
{
private BackgroundWorker worker = new BackgroundWorker();
private long from = 2;
private long to = 2000;
private long biggestPrime;
public Window1(): base()
InitializeComponent();
worker.WorkerSupportsCancellation = true;
worker.DoWork += new DoWorkEventHandler(worker_DoWork);
worker.RunWorkerCompleted
                                                            new
RunWorkerCompletedEventHandler(worker RunWorkerCompleted);
}
private void StartStop Click(object sender, RoutedEventArgs e)
{
```

```
if(!worker.IsBusy)
{
worker.RunWorkerAsync();
btnStartStop.Content = "Cancel";
txtBiggestPrime.Text = string.Empty;
}
else
{
worker.CancelAsync();
}
}
         void worker RunWorkerCompleted(object
                                                       sender,
RunWorkerCompletedEventArgs e)
{
if(e.Cancelled)
MessageBox.Show("Operation was canceled");
}
btnStartStop.Content = "Start";
txtBiggestPrime.Text = biggestPrime.ToString();
}
private void worker DoWork(object sender, DoWorkEventArgs e)
{
for(long current = from; current <= to; current++)</pre>
if(worker.CancellationPending) { e.Cancel = true; return; }
biggestPrime = current; } } } [/csharp]
```