

# Accessing ASP.NET Cache from multiple threads

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I was wondering how multiple threads can access the ASP.NET cache object safely. Take for example the following code that I got from the ASP.NET Cache object documentation:

```
DataView Source = (DataView)Cache["MyData1"];
if (Source == null) {
    // Connecting to a database...
    // Filling a dataset...

    Source = new DataView(ds.Tables["Authors"]);
    Cache["MyData1"] = Source;
}
MyDataGrid.DataSource=Source;
MyDataGrid.DataBind();
```

The following questions come to my mind:

1. What happens if two threads reach the 'if (source == null)'-line simultaneously. They could both start refilling the cache. Do I need to use locks or mutexes myself if I want to prevent that?
2. Suppose that thread 1 executed the 'if (source2 == null)' line and found that that source2 wasn't null. What if thread 2 executed 'Cache.Remove("MyData1")' after thread 1 performed that test but before it had to change to actually use the value in MyData1.

I would grealy appreciate any feedback!  
Michael