
Subject: Core multithread dangers

Posted by [hojtsy](#) on Fri, 03 Feb 2006 22:09:17 GMT

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I was told before that Core & Web packages are thread-safe. But some methods of Core are not thread-safe, and something like

CriticalSection::LockMain should be added to them to fix this. Here is a list of them.

```
static TimingInspector& s_zero()
```

```
TimingInspector::TimingInspector(const char *_name)
```

```
static void slnit()
```

```
String& sHomeDir()
```

```
String ConfigFile(const char *file)
```

```
byte *Alloc4KBRaw()
```

```
void *MemoryAllocPermanent(size_t size)
```

```
void *MemoryAlloc(size_t size)
```

```
void MemoryProbe(const char *name, dword flags)
```

```
const LanguageInfo& GetLanguageInfo(int lcode)
```

```
static Array<LngModule>& sMod()
```

```
CriticalSection& MainCriticalSection()
```

```
PageInfo *NewPage(int magnitude)
```

```
static CriticalSection& sHeapLock()
```

```
static CriticalSection& sHeapLock2()
```

```
static inline void slnitTables()
```

```
void MemoryInitDiagnostics()
```

```
RHITCOUNT(n)
```

```
static int sMappingGranularity_()
```

```
VectorMap<String, VectorMap<String, VectorMap<String, Topic > > >& TopicBase()
```

```
String GetIniKey(const char *name)
```

These other functions of Core need bigger rewrite to be threadsafe:sDumpPtr(void *ptr)

```
sDump(dword w)
```

```
const char *Dump(PageInfo *page)
```

```
const char *MemoryCounters()
```

These functions of the Web package are not thread-safe:

```
void HttpServer::ReadPostData(Socket& socket, HttpQuery& query)
```

```
void SSLInit()
```

```
static const dword *GetCRCTable()
```

```
RefPtr<HttpQuery::Data> HttpQuery::Empty()
```

```
dword WINAPI HttpExtensionProc(EXTENSION_CONTROL_BLOCK *ecb)
```

The problem is always with the local static variables which are not protected from parallel initialization on two threads.
