Subject: Re: Core multithread dangers
Posted by mirek on Mon, 06 Feb 2006 10:46:45 GMT
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Hojtsy, I have one MT trouble I would like to share....

It is about Ptr implementation. While current version is MT safe to my knowledge, it is inferior to previous one as it allocates shared data for the lifetime of Pte target.

Original version was able to delete shared data whenever no more pointer were pointing to it, something like

```
release prec:
if(--prec->n == 0) {
   // MT!
   prec->ptr->prec = NULL;
   delete prec;
}
```

However, I do not see a way how to implement it without adding a lock to Pte, which is even worse. The trouble is that at the MT! point, Pte can be destructed and prec is not valid anymore....

(Just for record, ~Pte() { if(prec) prec->ptr = NULL; })

Hm, thinking about it, maybe single _global_ lock would do?

Mirek