Subject: How to load only header of the file with LoadFromFile?
Posted by White_Owl on Thu, 08 Jan 2009 19:22:32 GMT
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I have a pretty big data file with a lot of data.
I need to show list of my data files. So I'd like to read only headers of my data file and ignore actual data.

Right now I see two ways:
1) Modify all LoadFrom*() functions, to add the third parameter bool header=false. And add to Stream function IsHeader();
That would be pretty universal, but a lot of work.

2) Solution "for right now":class MyData {
public:
  bool header_only;
  String data_description;

  void Serialize(Stream &s) {
    s % data_description;
    if(s.IsLoading() && header_only) return;
    s % data1 % data2 % data3 ;
  }
};
.....
MyData d;
d.header_only = true;
LoadFromFile(d, file_name);

Is there a third more elegant way?

Subject: Re: How to load only header of the file with LoadFromFile?
Posted by mirek on Thu, 08 Jan 2009 22:05:19 GMT
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Many.

LoadFromFile is too problem specific for your needs IMO.

If you want to use Serialize, you can still dividide it to Header and Data sections - you only cannot use LoadFromFile because it adds some magic values around the data. But you can call Serialize directly.

Mirek

Subject: Re: How to load only header of the file with LoadFromFile?
Posted by White_Owl on Fri, 09 Jan 2009 18:22:45 GMT
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luzr wrote on Thu, 08 January 2009 23:05If you want to use Serialize, you can still dividide it to Header and Data sectionsAre you suggesting to divide my data class to header and actual_data classes?
That can work, but I do not like this idea, because for all other purposes one big class would be better than two separate.

luzr wrote on Thu, 08 January 2009 23:05 - you only cannot use LoadFromFile because it adds some magic values around the data.Well, I generate these files myself so it should not be a problem...
luzr wrote on Thu, 08 January 2009 23:05 But you can call Serialize directlySomething like this?

```
class MyData {
  void Serialize_Header(Stream &s) {
    s % data_description;
  }
  void Serialize_Data(Stream &s) {
    s % data1 % data2 % data3;
  }
  void Serialize(Stream &s) {
    Serialize_Header(s);
    Serialize_Data(s);
  }
};
.....
FileIn fi(file_name);
MyData d;
d.Serialize_Header(fi);
fi.Close()
```

But in that case LoadFromFile() wont work at all, since both header and data would have this 'magic values' around them?

Subject: Re: How to load only header of the file with LoadFromFile?
Posted by mirek on Sat, 10 Jan 2009 09:10:12 GMT
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White_Owl wrote on Fri, 09 January 2009 13:22But in that case LoadFromFile() wont work at all, since both header and data would have this 'magic values' around them?

Yes, but you have effectively created your own implementation.

Search the forum, there is explanation of what LoadFromFile really does. It is likely that you do not need all of that

Mirek