
Subject: JSON support

Posted by [mirek](#) on Sat, 05 Nov 2011 17:15:22 GMT

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I guess better late than sorry. It is true that parsing JSON is trivial, at least as long as we have CParser... But now we have "official" suport in Core, with a nice reference example

```
#include "Core/Core.h"
```

```
using namespace Upp;
```

```
CONSOLE_APP_MAIN
```

```
{  
    Value js = ParseJSON(LoadFile(GetDataFile("test.json")));  
    DUMP(js);  
    DUMP(js["age"]);  
    Value phone_number = js["phoneNumber"];  
    DUMP(phone_number);  
    DUMP(phone_number.GetCount());  
    for(int i = 0; i < phone_number.GetCount(); i++) {  
        DUMP(phone_number[i]["type"]);  
        DUMP(phone_number[i]["number"]);  
    }  
}
```

```
DUMP(AsJSON(js, true));  
DUMP(AsJSON(js));
```

```
LOG("- Partial parsing");  
ValueArray va;  
va << js << js << js;  
String s = AsJSON(va);  
DUMP(s);  
CParser p2(s);  
try {  
    p2.PassChar('[');  
    if(!p2.Char(']')) {  
        do {  
            DUMP(ParseJSON(p2)["firstName"]);  
        }  
        while(p2.Char(','));  
        p2.PassChar(']');  
    }  
} catch(CParser::Error) {  
    LOG("invalid JSON");  
}
```

```

LOG("- Composing JSON using support classes");
Json json;
json
  ("firstName", "Andrew")
  ("secondName", "Smith")
  ("age", 28)
  ("address", Json("streetAddress", "23 3rd Street")("city", "New York"))
  ;
JsonArray pn;
pn << Json("type", "home")("number", "12312345")
  << Json("type", "work")("number", "87126388");
json("phoneNumber", pn);
DUMP(~json);
DUMP(AsJSON(ParseJSON(~json), true));
}

```

EDITED: added try/catch for partial parsin (ParseJSON(CParser) can throw exception).
