

Json parsers

There are some libraries at [Json.org](https://json.org) . I compare all of them below

	needs additional libraries	license	builds by	comment
jost	+	Public Domain	make	
cajun	-	BSD	make	
jsoncpp	-	Public Domain	scons	
zoolib	-	MIT	make	cross-platform framework
jaula	-	LGPL	make	needs FlexLexer lib
json-spirit	+	MIT		developed for windows

I think the best solution is cajun. Here is sample of code, that shows how does it work. We have such json request in file example.in

```
{
  "description": "subscribe to channel",
  "type": "object",
  "properties": {
    "user": {"type":"string"},
    "channel":{"type":"string"}
  }
}
```

Below you can see programm that prints its data to std::cout.

```
#include "elements.h"
#include "quick.h"
#include "writer.h"
#include "reader.h"
#include "cast.h"
#include "exception.h"
#include <iostream>
#include <fstream>

using namespace json;

int main(int argc, char** argv){
  std::ifstream in("example.in");
  Element elemRoot; //Root element of request
  Reader::Read(elemRoot, in); // Reading document into elemRoot
  QuickInterpreter interpeter(elemRoot); // This class allows us to get
  access to elemnts of json request like in std::map
  const String& description=interpeter["description"];
  const String& type=interpeter["type"];
  const String& type1=interpeter["properties"]["user"]["type"];
  const String& type2=interpeter["properties"]["channel"]["type"];
  std::cout << "description:  " << std::string(description) << std::endl;
```

```
std::cout << "type: " << std::string(type) << std::endl;
std::cout << "properties/user/type: " << std::string(type1) <<
std::endl;
std::cout << "properties/channel/type: " << std::string(type2) <<
std::endl;
//Creating json request
Element newRoot;
QuickBuilder builder(newRoot);
builder["description"]=String("subscribe to channel");
builder["type"]=String("object");
builder["properties"]["user"]["type"]=String("string");
builder["properties"]["channel"]["type"]=String("string");
std::cout << "Example of creating json:" << std::endl;
Writer::Write(newRoot, std::cout);
return 0;
}
```

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