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From: George Schils <bean@georgeschils.com>
To: Mike Iltis <mgiltis@hotmail.com>
Subject: Dyna // good news bad news
Date: 08/15/2009 8:25:38 PM
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М.,

I tried to build dyna 0.3.10 on the server and the build broke. This is due to word size, again with most apps having the default assumption that a word is 4 bytes. The server uses 8 byte words.

I did build it under cygwin on my 8-year old machine, and the build succeeded. (a standard recent version of cygwin). There is nothing tricky to the build. Just untar and type make. Going to the demos directory, type make and then make run.

The examples in the demos/cky are impressive. There are other impressive examples as well. These techniques and results do more than *hold promise*, and for research, this is impressive. Here is a brief excerpt of dyna input/output:

```
command: ./cky grammar < newsent >x
file: newsent (input to grammar):
I hate radiation
I wrote a note to Mike Iltis
I studied the stock market
I told Mike that I like this
I built dyna
I built dyna and I thought it was cool
I ate an apple
I built a house
output from built cky command:
SENTENCE 1: I hate radiation
 -25.7685
(<ROOT> (PRP I )
(VP (VBP hate )
(NN radiation )
)
)
 SENTENCE 2: I wrote a note to Mike Iltis
 -inf
 SENTENCE 3: I studied the stock market
 -29.7529
(<ROOT> (PRP I )
(VP (VBD studied )
(NP (DT the )
(+NN+NN (NN stock )
(NN market )
)
)
)
)
 SENTENCE 4: I told Mike that I like this
 -52.5602
(<ROOT> (PRP I )
(VP (VBD told )
(+NP+SBAR (NNP Mike )
(SBAR (IN that )
(S (PRP I )
(VP (VB like )
(DT this )
```

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)
)
)
)
)
)
 SENTENCE 5: I built dyna
 -inf
 SENTENCE 6: I built dyna and I thought it was cool
 -inf
 SENTENCE 7: I ate an apple
 -inf
 SENTENCE 8: I built a house
-24.708
(<ROOT> (PRP I )
(VP (VBD built )
(NP (DT a )
(NN house )
)
)
)
Dyna does impressively well given the input grammar in the supplied "grammar" file.
The examples included in the demo even work better.
George Schils
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