

A Note on Parsing Source Code

Corrolary to "Poor Man's Recognizer"

I pondered some more on the relationship between gforth's `[,]`, and `parser`.

When the Forth system is used for cross compilation, we must be able to switch back and forth between interpreting and compiling using `[` and `]` - just the same as in a normal host only system. But the `parser` action will be different depending on whether we want to produce code for the host or for the target system.

In gforth, `parser` is deferred, which is already a good starting point for differences in host or target code production, and `[` and `]` are defined as follows:

```
: ] ( -- ) ['] compiler is parser 1 state ! ;
: [ ( -- ) ['] interpreter is parser 0 state ! ;
```

Bad luck if I have to modify `parser` depending on my cross compiler's needs, because `[` and `]` will overwrite whatever I may have assigned to `parser`.

A more useful implementation will look like this:

```
: ] ( -- ) 1 state ! ;
: [ ( -- ) 0 state ! ;
: host-parser ( c_addr u -- )
  state @ IF compiler ELSE interpreter THEN ;
' host-parser IS parser
```

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