

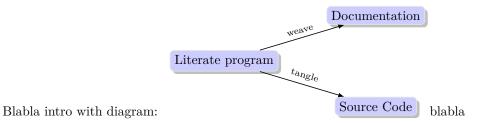
## The Universal Short Graph Language

## Introducing the $\sqcup$ language

Laurent Fournier - lfournie@rockwellcollins.com

August 1, 2012

## 1 Introduction



## 2 Parser

```
__RE_U__ = r'''
                               # RegExp
                               # Three basic tokens:
        (?:
2
         ([{}])
                               # (1) Block
         (\#[^\n]*)
                               # or (2) Line comment
5
                               # or (3) NODE:
6
7
          (?=[^\s<\-=>])
                               # Not empty token
8
         (?:(\w{1,10})) # Name
          (?::(\w)/)
                               # Type pre
         ((\%s)(.+?)\setminus 6/\setminus [([^{\wedge}]]+)\setminus ]/\setminus (([^{\wedge}]]+)\setminus )/) \ \# \ Content
                               # Type post
11
         (?:\.(\w{1,20}/\*)/) # Port
12
                               # or (4) ARC:
13
         ([<\-=>])
                               # Head
14
          (?:([^\W\d_])) # Type pre
15
         ((\%s)(.+?)\setminus 15/\setminus [([^{\setminus}]]+)\setminus ]/\setminus (([^{\cap}]]+)\setminus )/) \ \# \ Content
16
          (?:([^\W\d_])) # Type post
17
         ([<\-=>])
18
    )''' % (__delimiter__, __delimiter__)
```

The end of the document

<sup>\*</sup>the first five characters of the base64 encoding of the SHA1 digest of the attached source files.