

CPN Tools

Future work

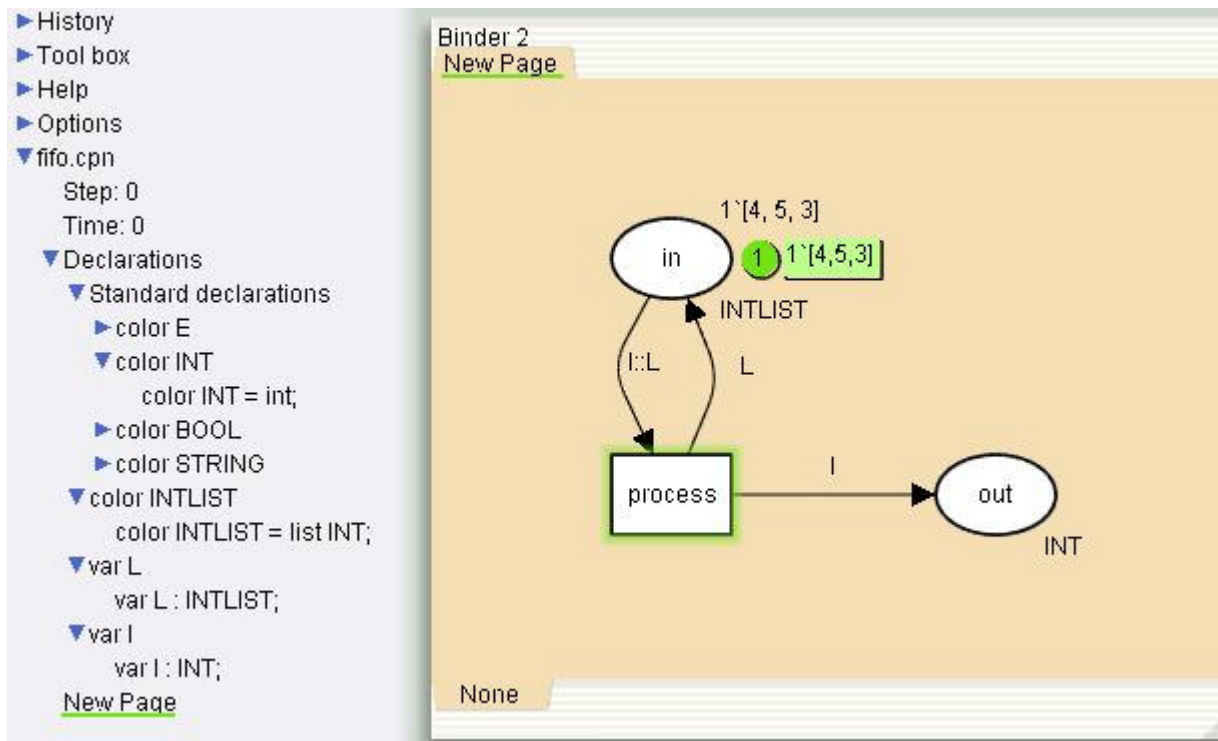
Overview

- Language extensions
- Manual simulation
- Analysis techniques
- Editing
- Other

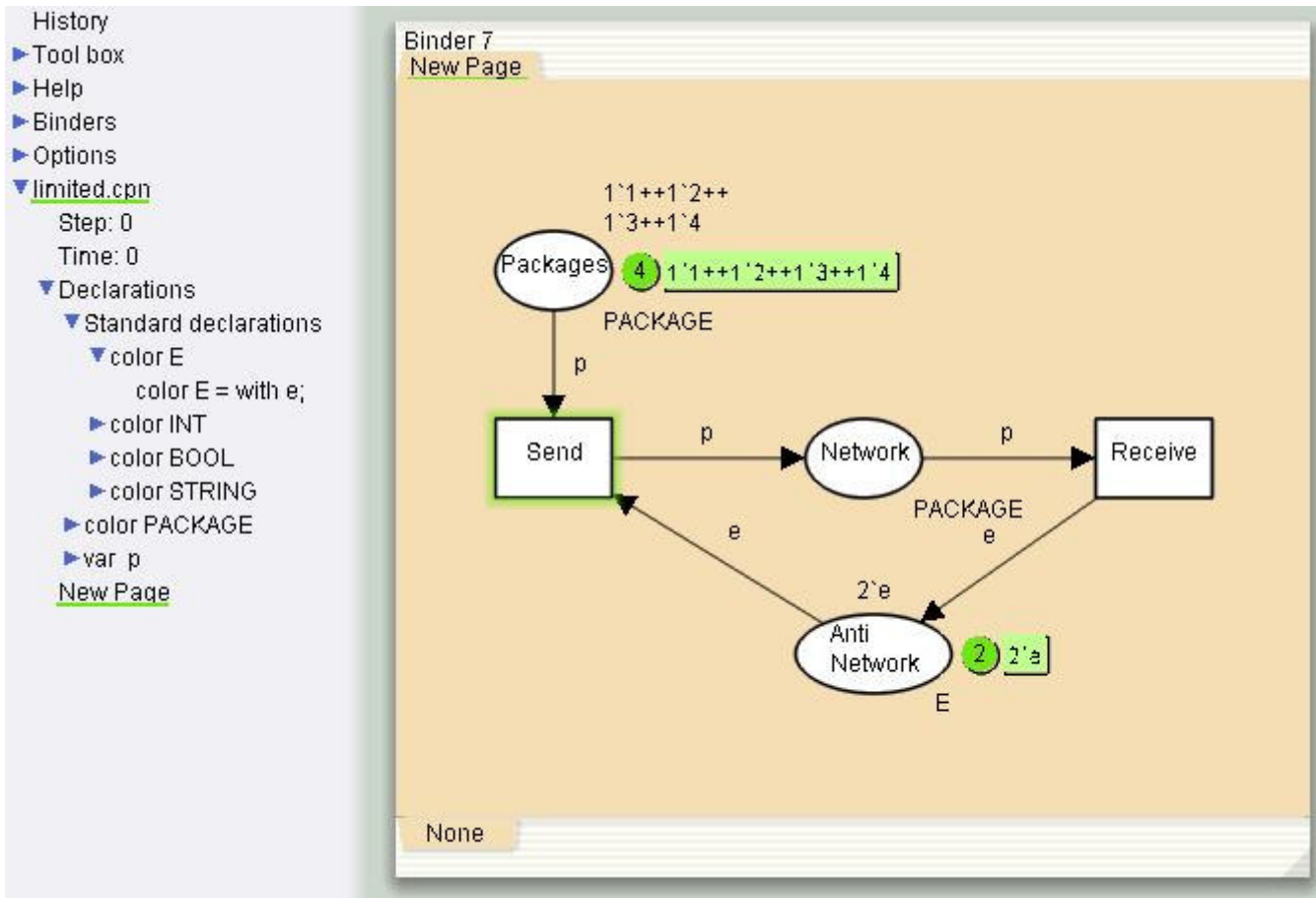
Language extensions

- Queue places
- Bounded places
- Channels

FIFO places

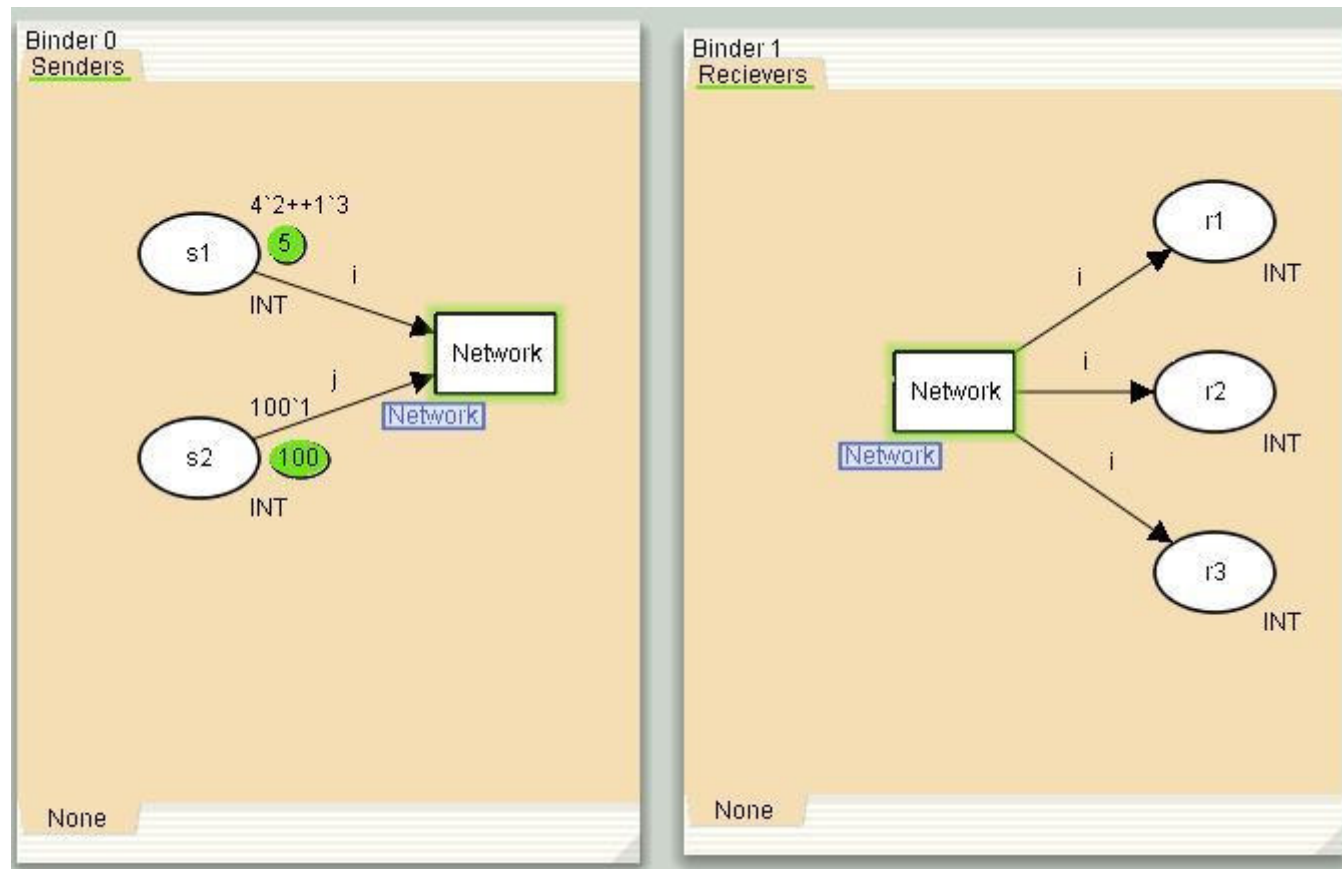


Bounded places



Channels

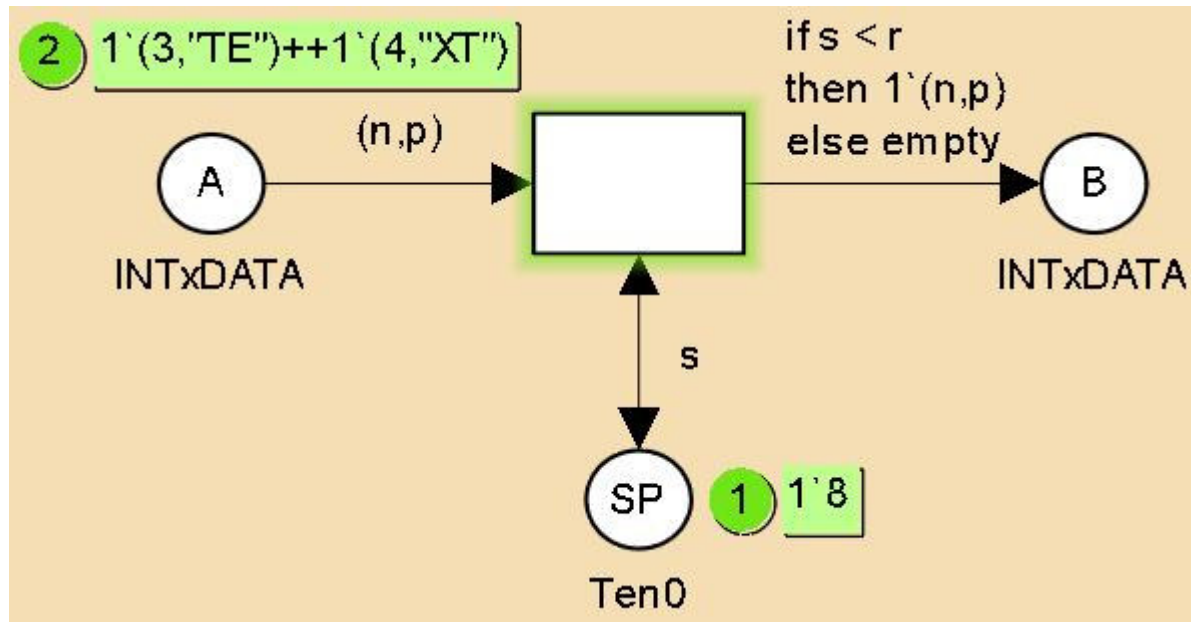
Sort of
like place
fusions



Manual simulation

- Choosing bindings
- Break points

Choosing bindings (1)



Choosing bindings (2)

- v BIND : 20

- > n = ?

- > p = ?

- > r = ?

- > s = 8

Choosing bindings (3)

- v BIND : 20

> n = ?

> p = ?

v r = ?

* 1

* 2

* 3

* 4

* 5

* 6

* 7

* 8

* 9

* 10

> s = 8

Choosing bindings (4)

- v BIND : 2
 - > n = ?
 - > p = ?
 - r = 7
 - s = 8

Choosing bindings (5)

- v BIND : 1
 - n = 3
 - p = "TE"
 - r = 7
 - s = 8

Choosing bindings (6)

- Index on the transition instance
- Free variables belong to small color sets, eg.
 - Boolean
 - Enumeration
- Problems
 - Combinatory
 - Many tokens

Break points

- Net specific
 - Number of tokens on a place
 - Enabling information
- Arbitrary ML functions

Analysis techniques

- Performance analysis
 - Mean list length
 - Mean token amount
 - Etc.
- Advanced state space reduction techniques
 - Equivalence classes
 - Sweep line method
 - Symmetry method

Editing

- Additional alignment possibilities
- Deeper index representation of nets
 - Change information on page elements in the index
- Clone of declarations
- Change font and font size
- Etc.

Other

- Linux and Mac versions
- Use of PNML
- Chinese version
 - General solution to support other language
 - Standard ML limits the translation of simulator messages