

# Unstable-Languages-beta: SIMPLE-THR-Unstable-Funcons-Index \*

The PLanCompS Project

SIMPLE-THR-Unstable-Funcons-Index.cbs | PLAIN | PRETTY

## OUTLINE

### Computations

- Normal computation
  - Value indexing
  - Memos
- Abnormal computation
  - Postponing
- Threads
  - Multithreading
    - Activation
    - Termination
  - Thread synchronisation
    - Locks
    - Notifications

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Unstable Funcons, for use only in Unstable Languages

## Computations

### Normal computation

#### Value indexing

```
[ Funcon  allocate-index  
  Funcon  lookup-index ]
```

#### Memos

```
[ Funcon  initialise-memos  
  Funcon  memo-value  
  Funcon  memo-value-recall ]
```

### Abnormal computation

#### Postponing

```
[ Funcon  postpone  
  Funcon  postpone-after-effect ]
```

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\*Suggestions for improvement: [plancomps@gmail.com](mailto:plancomps@gmail.com).  
Reports of issues: <https://github.com/plancomps/CBS-beta/issues>.

## Threads

### Multithreading

[ *Funcon* thread-joinable ]

### Activation

[ *Funcon* multithread  
*Funcon* thread-activate ]

### Termination

[ *Funcon* thread-join ]

### Thread synchronisation

#### Locks

[ *Funcon* is-exclusive-lock-holder ]

#### Reentrant locks

[ *Funcon* reentrant-lock-create  
*Funcon* reentrant-lock-sync-else-wait  
*Funcon* reentrant-lock-release  
*Funcon* reentrant-lock-exit ]

### Notifications

#### Rendezvous

[ *Funcon* rendezvous-create  
*Funcon* rendezvous-sync-else-wait ]