Unstable-Funcons-beta: Unstable-Funcons-Index *

The PLanCompS Project

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Unstable Funcons, for use only in Unstable Languages

Computations

Normal computation

Value indexing

[Entity value-index Funcon initialise-index Funcon lookup-index]

Memos

[Entity memo-map

Funcon initialise-memos

Funcon memo-value

Funcon initialise-memo-value Funcon memo-value-recall

Reports of issues: https://github.com/plancomps/CBS-beta/issues.

^{*}Suggestions for improvement: plancomps@gmail.com.

Abnormal computation

Postponing

```
[ Entity postponing Funcon postpone
```

Funcon postpone-after-effect

Funcon after-effect

Threads

Multithreading

```
[ Datatype thread-ids Datatype threads
```

Funcon thread-joinable Funcon thread-detached]

Initialisation

[Funcon initialise-multithreading]

Activation

```
[ Funcon multithread
Funcon thread-activate
Funcon thread-detach ]
```

Execution

```
Funcon current-thread
Funcon thread-atomic
Funcon thread-yield
Funcon thread-spin
Funcon thread-suspend
Funcon thread-resume]
```

Termination

```
[ Funcon thread-terminateFuncon is-thread-terminatedFuncon thread-valueFuncon thread-join
```

Funcon thread-exterminate

Scheduling

```
[ Funcon update-thread-stepping Funcon update-thread-schedule Funcon current-thread-schedule Funcon is-thread-preemptible Funcon thread-preemptible funcon thread-cooperative ]
```

Thread synchronisation

Syncs

```
[ Datatype syncs
   Funcon sync-create
   Funcon sync-feature
   Funcon is-sync-feature ]
```

Sync features

```
[ Datatype sync-features
Funcon sync-waiting-list
Funcon sync-held
Funcon sync-holder
Funcon sync-count
Funcon sync-feature-create ]
```

Locks

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

Spin locks

```
[ Funcon spin-lock-create Funcon spin-lock-sync Funcon spin-lock-release ]
```

Exclusive locks

```
[ Funcon exclusive-lock-create
Funcon exclusive-lock-sync
Funcon exclusive-lock-sync-else-wait
Funcon exclusive-lock-release ]
```

Reentrant locks

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

Semaphores

```
[ Funcon semaphore-create
Funcon semaphore-sync
Funcon semaphore-sync-else-wait
Funcon semaphore-release ]
```

Shared-exclusive locks

```
[ Funcon rw-lock-create
Funcon rw-lock-sync-exclusive
Funcon rw-lock-sync-shared
Funcon rw-lock-sync-exclusive-else-wait
Funcon rw-lock-sync-shared-else-wait
Funcon rw-lock-release-exclusive
Funcon rw-lock-release-shared ]
```

Notifications

Barriers

[Funcon barrier-create Funcon barrier-sync

Funcon barrier-sync-else-wait]

Conditions

[Funcon condition-create Funcon condition-wait

Funcon condition-wait-with-lock Funcon condition-notify-all Funcon condition-notify-first]

Rendezvous

[Funcon rendezvous-create Funcon rendezvous-sync

Funcon rendezvous-sync-else-wait]