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1.

umsCodeGenerator ##2#####
2#####

#####	#####	#####
#####	####	####
#####	####	#####

Note:

"####" ##### "####" ##### umsCodeGenerato ##### "##" #
brunch#sleep#awake#sync ##### "####" #####

- ##### (tableTools-2006040601.txt)
- #####[Java##](#) (tableTools-2006091201.txt)
- #####[C####](#) (tableTools-2006091202.txt)
- #####[case #####](#) (tableTools-2005080801.txt)
- ##### (tableTools-2006092201.txt)

2.

umsCodeGenerator #####

#####	##
dat	bit#byte#data#value #####
list	list + dat ###
loop	oneOrMore#zeroOrMore#optional + dat ###
interleave	interleave + dat ###

umsCodeGenerator #####dat#list#loop#interleave ## thread #####
#####

```
[#####]
src/clng/umsDat.h
src/clng/umsDat.c
src/clng/umsList.h
src/clng/umsList.c
src/clng/umsLoop.h
src/clng/umsLoop.c
```

/

```
src/clng/umsInterleave.h
src/clng/umsInterleave.c
src/clng/umsThread.h
src/clng/umsThread.c
src/java/jp/jaxa/isas/ums/runtime/UMSDat.java
src/java/jp/jaxa/isas/ums/runtime/UMSList.java
src/java/jp/jaxa/isas/ums/runtime/UMSLoop.java
src/java/jp/jaxa/isas/ums/runtime/UMSInterleave.java
src/java/jp/jaxa/isas/ums/runtime/UMSThread.java
```

(tableTools-2006091210.txt)

(data_model.jpg)

3.

3.1. bit / byte

[push, pop # template](#) ##### (tableTools-2005062202.txt)

[method 2](#) ##### [epos](#) ##### (tableTools-2006091207.txt)

3.2. data / value

[data / value](#) ##### (tableTools-2006091208.txt)

[validate -> restrict -> sync ->](#) ##### (tableTools-2005063001.txt)

3.3. param

(tableTools-2006091209.txt)

3.4. list

[list](#) ##### (tableTools-2006091206.txt)

[\(template # foreach\)](#) ##### (tableTools-2005062654.txt)

3.5. choice

[choice](#) ##### (tableTools-2005061603.txt)

[\(template # foreach\)](#) ##### (tableTools-2005062654.txt)

3.6. optional

[optional](#) ##### (tableTools-2005072701.txt)

3.7. oneOrMore

#####[oneOrMore](#) ### (tableTools-2006091205.txt)

3.8. zeroOrMore

#####[zeroOrMore](#) ### (tableTools-2006091204.txt)

3.9. interleave

#####[interleave](#) ##### (tableTools-2005072171.txt)

#####[interleave](#) ### (tableTools-2005080501.txt)

4.

- mapping function [2005062651](#) (tableTools-2005062651.txt) :mapping function
(##)
- [2005062451](#) (tableTools-2005062451.txt) : #####
- [2005062452](#) (tableTools-2005062452.txt) : tableTools # umsCodeGenerator ##
- [2005080301](#) (tableTools-2005080301.txt) : umsCodeGenerator, tableTools ###
- [2005072953](#) (tableTools-2005072953.txt) : ##### (txt:line ###encodingLibrary
#####param ## #####)
- [2005070251](#) (tableTools-2005070251.txt) : XSL # XSL # XSL #####
- [2006062201](#) (tableTools-2006062201.txt) : pre ##### XSL ##