```
@spm.util.dassert(predicateCb = spm.sys.sstat.amOffl
@spm.util.dassert(predicateCb = spm.sys.pstat.amHub)
    __init():

# Create parallel closure (task manager) of the type
# we are interested in (coarse grain parallel list =
    unique to module.
\underline{\phantom{a}} pc = \underline{\phantom{a}} nprimes = 0;
                  _init();
@spm.util.dassert(predicateCb = spm.sys.sstat.amOnline)
@spm.util.dassert(predicateCb = spm.sys.pstat.amHub)
def __taskStat(pc):
    # Callback for incoming status reports ...
          global __nprimes;
     SPMTaskEval,
               ), (hdl,):
          pass;
     ) [-1];
#
# Compute the number of primes between 3 and 502347
# by dividing the range into 'nBuckets' ...
@spm.util.dassert(predicateCb = spm.sys.sstat.amOffline)
@spm.util.dassert(predicateCb = spm.sys.pstat.amHub)
def main(pool,
          nBuckets = 10,
           ):
tialize 'stage0'.
     global __nprimes;
     assert (nBuckets >= 1);
   __pc.stage0.init.main(typedef = \
   r"""
           task<list>::struct {
              #
              # SPM component ...
              #
              spm::struct {
                meta::struct {
                   label ::scalar<stringSnippet> = deferred;
path ::tuple<string> = deferred;
                   path ::tuple<string> = deferred;
modulePreload::tuple<string> = deferred;
module ::scalar<stringSnippet> = deferred;
timeout ::scalar<timeout> = deferred;
                core::struct {
  relaunchPre ::scalar<bool>
  relaunchPost ::scalar<bool>
                                                                   = None;
                returnValue ::scalar<auto>
};
                                                                  = None;
= None;
              # non-SPM component ...
                                    ::scalar<auto>
                                                                  = deferred;
= deferred;
              nMin
                                    ::scalar<auto>
              nMax
           };
""");
           # Always reset counter.

= __pc.stage0.payload.tie(); # Handle to the payload.

= 2;
       nprimes = 0;
     hd1
          ct in range(0, nBuckets):
# Initialize 'spm' component so that Spokes know what to
# preload ...
     nMin
     for
             preload
                                             = '***';
          hdl.spm.meta.label
          hdl.spm.meta.path
          (os.path.dirname(__pc.meta.module.srcDir),);
hdl.spm.meta.modulePreload = ('is_prime',);
hdl.spm.meta.module = 'is_prime';
          = nMin; nMin += ((502347) / nBuckets);
          hdl.nMin
               (ct == (nBuckets - 1)):
hdl.nMax = 502347;
          else:
               hdl.nMax = nMin;
          hdl.Push();
     # Invoke the pmanager ...
      return:
```