```
module FileCache   # located on each diskless workstation
  op read(int count; result char buffer[*]);
  op write(int count; char buffer[]);
body
  cache of file blocks;
  variables to record file descriptor information;
  semaphores for synchronization of cache access (if needed);

  proc read(count,buffer) {
    if (needed data is not in cache) {
      select cache block to use;
      if (need to write out the cache block)
        FileServer.writeblk(...);
      FileServer.readblk(...);
    }
    buffer = appropriate count bytes from cache block;
  }

  proc write(count,buffer) {
    if (appropriate block not in cache) {
      select cache block to use;
      if (need to write out the cache block)
        FileServer.writeblk(...);
    }
    cache block = count bytes from buffer;
  }
end FileCache
```

Figure 8.2 (a) Distributed file system: File cache.