4 9 2013 VIRGO Malloc **AUGUST** esign notes - Conto 2013 2013 few thousand cloud nodes. Internally onday 12 But when large kernel memory &pread 9 Friday Virgo malloc () disign option I that wrops calls to multiple malloc() across thousands of cloud rodust is shill calls and concatenates, the malloco-ed to be researched. Probably this would memory Chunks spread across multihide be useful in iseuring, individual OS instances of cloud nodes is quite a high-level cloud nody together as a SINGLE simple implementation that delegates the \* KERNEL MONOLITH. complex issues of memory allocation alignment efc. to the OS level Code. Also virgo mallor quite useful in allocating large Kernel memory virtualized and Scattered across doud modes. Thus all individual mallec commands sent to the remote cirgo cloudenec service & are kernel malloc called thus worse malloc () allocates very large kernel memory on the cloud great users space VIRGO Clone () 10 Saturday [ memory ( if in kernel mode) exicution). For user space virgo mallo(1) viogo cloudenecc) makes upcall, and does VIRGO address mallocci in user spacel and returns il to the remote lingo malloc (). This is Somewhat circuitous, since this user space 3) Test cases. assocation can le done in user space itself without going to kernel. Thus 11 Sunday services in cloud modes accept, maller necests and return allocated Chanks using only userspace sockets, without any karnel ( sockets, Virgo malloco) is their apetal when ( ) 1 + 5 \ 5 \ 2 3 4 5 6 7 large kemet memory s Sprauling across