

SMC
18/11/13 (137)

**DEFENCE SIGNALS DIRECTORATE
MINUTE PAPER**

REFERENCE: PH-023-91

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✓ SMC

RISING SUN - MEMORY REQUIREMENTS

Ref: A SMC-91-045 of 6 May 1991
B SMC-91-048 of 7 May 1991
C SMC-91-050 of 8 May 1991
D PH-005-91 of 26 February 1991
E PH-011-91 of 3 April 1991

1. It is unfortunate that the Sparc-1 series of Sun High Performance workstations is no longer available. We are left with a choice between a SUN HP workstation with memory size in excess of our current justifiable requirement, at greater cost than envisaged, and a top of the range model with the right memory size but with enhancements that are beyond our general needs and expectation - at even greater cost. However, the bottom line is that we need additional SUN terminals as soon as possible. We are already hurting with staff frequently having to travel inter-floor to use a terminal.

2. The memory requirement in specification PH-011-91 is based upon a current evaluation of an average work load for a cryptanalytic environment. This evaluation did not include the additional memory requirement of packages such as FrameMaker and bit - mapped graphics programs for signals processing. Also pending is the recommendation by SMC of a database package which could heavily impact the local memory utilization on our Sun workstations. In light of these additional requirements, the Sparc IPC, 24 Mbyte memory, 16 inch colour monitor or the Sparc 2, 16 Mbyte memory, 16 inch colour monitor, 207 Mbyte onboard disk, gx accelerator are the two possible choices for workstations which satisfy user's requirements for responsive workstations.

3. All things having been considered, the specification of PH's requirement is clear. The 'gx accelerator' would have useful application in PHR2 for

so our specification for 10 additional SUN HPW's (refs D & E) reads:

Nine Sparc IPC, 24 Mbyte memory, 16 inch colour monitor @ \$18076 each

One Sparc 2, 16 Mbyte memory, 16 inch colour monitor plus gx accelerator (but without the 207 Mbyte disk) - \$24800.

Five of the IPC's should be for immediate delivery, while we can wait until later in the year for the other five (including the Sparc2).

4. As stated in ref E, we leave SMC to decide on the most appropriate (cost-effective)

files server. PH therefore endorses your recommendation of a Sun Sparc 490 files server in ref B.

5. PT has verbally confirmed a need for 4 additional SUN terminals and is in the process of formulating, and justifying, his requirement. I understand that CMR will be seeking funding and procurement much later in the year. I have suggested that HCMR consult with SMC before submitting his requirement.

PH
13 May 1991

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