

**Summary:** Proposal to purchase a PA-RISC system for developers

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**Project Description:** Gentoo's HP PA-RISC port has relied on one HP C3600 server hosted at OSUOSL, supplemented by any machines personally owned by developers. The C3600 is particularly slow: a single 552MHz CPU requires 30-40 hours to compile sys-devel/gcc. The speed of the machine is sufficiently low that PA-RISC is often the long-pole in package stabilization, which causes frustration among developers.

Acknowledging that the Gentoo PA-RISC port is not critical to the future success of Gentoo, I believe that we can both continue providing the port and remove the bottleneck of PA-RISC package stabilization at only a modest financial cost.

**Objectives:** To provide a more modern and PA-RISC server at OSUOSL that will allow the Gentoo/HPPA port continue without interfering in package testing and stabilization.

This proposal requests funding to ship an HP RP3440 [1] owned and offered for donation to the Gentoo Foundation by former Gentoo/HPPA developer Guy Martin (username: GMsoft).

The specifications of the machine offered to us are:

- 2U rackmount (rails needed, see below)
- 2x dual-core 1 GHz PA-8800 CPUs
- 8 GB ECC/Registered PC2100 DDR memory
- Unknown disks

I estimate that the machine offered is provides roughly 8x the throughput of the C3600 currently in use.

The primary cost is shipping from Luxembourg, Europe to OSUOSL in Oregon, United States. Secondary costs are for the purchase of a rackmount rail kit, and potentially hard drives in the future.

The rackmount rail kit is somewhat difficult to acquire. According to [2] the rackmount kit is HP part number AB241A. It is available from various unknown-to-me resellers online ([3] for example).

I estimate the primary shipping costs to be no more than \$250 (and hopefully less), the cost of the rackmount kit to be \$200. As such, I ask the Foundation for a budget of \$450.

**Alternatives:** An HP P3440, complete with rackmount kit and a large amount of RAM can be purchased from a seller on eBay for \$1695 [4].

**Logistics:** I am located in Hillsboro, Oregon which is a little under a 2-hour drive from Oregon State University. If this proposal is accepted, the server could either be shipped directly to OSUOSL or if needed to me for delivery to OSUOSL after the machine is set up and running Gentoo.

[1] [https://www.openpa.net/systems/hp-9000\\_rp3410\\_rp3440.html](https://www.openpa.net/systems/hp-9000_rp3410_rp3440.html)

[2] [https://support.hpe.com/hpesc/public/docDisplay?docId=emr\\_na-c00290627](https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-c00290627)

[3] <https://www.gotodirect.com/ab241a-hp-sliding-rail-kit-for-rx2600>

[4] <https://www.ebay.com/itm/293580025347>