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*****
7091 Thu Oct 23 10:42:27 2014
new/usr/src/uts/sun4/io/px/px_debug.c
5256 document some nonsensical code in the px driver
*****
_unchanged_portion_omitted_
248 #endif /* DEBUG */

250 void
251 px_dbg_attach(dev_info_t *dip, ddi_softint_handle_t *dbg_hdl)
252 {
253 #ifdef DEBUG
254     if (px_dbg_reference++ == 0) {
255         int size = px_dbg_msg_size;

257         /* Check if px_dbg_msg_size is ^2 */
258         /*
259          * WARNING: The bellow statement makes no sense. If size is
260          * not a power of 2, it will set size to zero.
261          */
262 #endif /* ! codereview */
263         size = !ISP2(size) ? ((size | ~size) + 1) : size;
264         px_dbg_msg_size = size;
265         px_dbg_qmask = size - 1;
266         px_dbg_msgq = kmem_zalloc(sizeof (px_dbg_msg_t) * size,
267                                 KM_SLEEP);

269         mutex_init(&px_dbg_mutex, NULL, MUTEX_DRIVER, NULL);
270     }

272     if (ddi_intr_add_softint(dip, dbg_hdl,
273                             DDI_INTR_SOFTPRI_MAX, px_dbg_drain, NULL) != DDI_SUCCESS) {
274         DBG(DBG_ATTACH, dip,
275            "Unable to allocate soft int for DBG printing.\n");
276         dbg_hdl = NULL;
277     }
278 #endif /* DEBUG */
279 }

281 /* ARGSUSED */
282 void
283 px_dbg_detach(dev_info_t *dip, ddi_softint_handle_t *dbg_hdl)
284 {
285 #ifdef DEBUG
286     if (dbg_hdl != NULL)
287         (void) ddi_intr_remove_softint(*dbg_hdl);

289     if (--px_dbg_reference == 0) {
290         if (px_dbg_msgq != NULL)
291             kmem_free(px_dbg_msgq,
292                      sizeof (px_dbg_msg_t) * px_dbg_msg_size);
293         mutex_destroy(&px_dbg_mutex);
294     }
295 #endif /* DEBUG */
296 }
```