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 27933 Fri Apr 20 04:05:10 2012

new/usr/src/uts/common/fs/zfs/ddt.c

\*\*\* NO COMMENTS \*\*\*

\*\*\*\*\*

unchanged portion omitted

```

287 void
288 ddt_phys_fill(ddt_phys_t *ddp, const blkptr_t *bp)
289 {
290     ASSERT(ddp != NULL);
291     ASSERT(ddp->ddp_phys_birth == 0);

293     for (int d = 0; d < SPA_DVAS_PER_BP; d++)
294         ddp->ddp_dva[d] = bp->blk_dva[d];
295     ddp->ddp_phys_birth = BP_PHYSICAL_BIRTH(bp);
296 }

```

```

298 void
299 ddt_phys_clear(ddt_phys_t *ddp)
300 {
301     ASSERT(ddp != NULL);
302     if (ddp) {
303         bzero(ddp, sizeof (*ddp));
304     }
305 }

```

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307 void
308 ddt_phys_addrf(ddt_phys_t *ddp)
309 {
310     ASSERT(ddp != NULL);
311     if (ddp) {
312         ddp->ddp_refcnt++;
313     }
314 }

```

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316 void
317 ddt_phys_decref(ddt_phys_t *ddp)
318 {
319     // ASSERT(ddp != NULL);
320     if (ddp) {
321         ASSERT((int64_t)ddp->ddp_refcnt > 0);
322         ddp->ddp_refcnt--;
323     }
324 }

```

unchanged portion omitted

```

336 ddt_phys_t *
337 ddt_phys_select(const ddt_entry_t *dde, const blkptr_t *bp)
338 {
339     ddt_phys_t *ddp = (ddt_phys_t *)dde->dde_phys;

341     for (int p = 0; p < DDT_PHYS_TYPES; p++, ddp++) {
342         if (DVA_EQUAL(BP_IDENTITY(bp), &ddp->ddp_dva[0]) &&
343             BP_PHYSICAL_BIRTH(bp) == ddp->ddp_phys_birth)
344             return (ddp);
345     }
346     (void) printf("ddt_phys_select() found nothing for "
347                 "DVA[BP]=<%llu:%llx:%llx> and phys_birth[BP]=%llu\n",
348                 (u_longlong_t)DVA_GET_VDEV(BP_IDENTITY(bp)),
349                 (u_longlong_t)DVA_GET_OFFSET(BP_IDENTITY(bp)),
350                 (u_longlong_t)DVA_GET_ASIZE(BP_IDENTITY(bp)),
351                 (u_longlong_t)BP_PHYSICAL_BIRTH(bp));
352 };
353     return (NULL);
354 }

```

unchanged portion omitted

new/usr/src/uts/common/fs/zfs/zio.c

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*****
84163 Fri Apr 20 04:05:11 2012
new/usr/src/uts/common/fs/zfs/zio.c
*** NO COMMENTS ***
*****
_____unchanged_portion_omitted_____

2098 ddt_entry_t *freedde; /* for debugging */

2100 static int
2101 zio_ddt_free(zio_t *zio)
2102 {
2103     spa_t *spa = zio->io_spa;
2104     blkptr_t *bp = zio->io_bp;
2105     ddt_t *ddt = ddt_select(spa, bp);
2106     ddt_entry_t *dde;
2107     ddt_phys_t *ddp;

2109     ASSERT(BP_GET_DEDUP(bp));
2110     ASSERT(zio->io_child_type == ZIO_CHILD_LOGICAL);

2112     ddt_enter(ddt);
2113     freedde = dde = ddt_lookup(ddt, bp, B_TRUE);
2114     if (dde) {
2115         ddp = ddt_phys_select(dde, bp);
2116         if (ddp) {
2117             ddt_phys_decref(ddp);
2118         }
2119     }
2120     ddt_exit(ddt);

2122     return (ZIO_PIPELINE_CONTINUE);
2123 }
_____unchanged_portion_omitted_____
```