
74438 Sun May 19 13:56:47 2013

new/usr/src/uts/common/nfs/nfs4_clnt.h

3702 nfs4_clnt.h: Typo pathhconf

_____ unchanged portion omitted _____

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394 #define NFS4_TAG_INITIALIZER {
395     {TAG_NONE, "",
396     {0x20202020, 0x20202020, 0x20202020}},
397     {TAG_ACCESS, "access",
398     {0x61636365, 0x73732020, 0x20202020}},
399     {TAG_CLOSE, "close",
400     {0x636c6f73, 0x65202020, 0x20202020}},
401     {TAG_CLOSE_LOST, "lost close",
402     {0x6c6f7374, 0x20636c6f, 0x73652020}},
403     {TAG_CLOSE_UNDO, "undo close",
404     {0x756e646f, 0x20636c6f, 0x73652020}},
405     {TAG_COMMIT, "commit",
406     {0x636f6d6d, 0x69742020, 0x20202020}},
407     {TAG_DELEGRETURN, "delegreturn",
408     {0x64656c65, 0x67726574, 0x75726e20}},
409     {TAG_FSINFO, "fsinfo",
410     {0x6673696e, 0x666f2020, 0x20202020}},
411     {TAG_GET_SYMLINK, "get symlink text",
412     {0x67657420, 0x736c6e6b, 0x20747874}},
413     {TAG_GETATTR, "getattr",
414     {0x67657461, 0x74747220, 0x20202020}},
415     {TAG_GETATTR_FSLOCATION, "getattr fslocation",
416     {0x67657461, 0x74747220, 0x66736c6f}},
417     {TAG_INACTIVE, "inactive",
418     {0x696e6163, 0x74697665, 0x20202020}},
419     {TAG_LINK, "link",
420     {0x6c696e6b, 0x20202020, 0x20202020}},
421     {TAG_LOCK, "lock",
422     {0x6c6f636b, 0x20202020, 0x20202020}},
423     {TAG_LOCK_RECLAIM, "reclaim lock",
424     {0x7265636c, 0x61696d20, 0x6c6f636b}},
425     {TAG_LOCK_RESEND, "resend lock",
426     {0x72657365, 0x6e64206c, 0x6f636b20}},
427     {TAG_LOCK_REINSTATE, "reinstate lock",
428     {0x7265696e, 0x7374206c, 0x6f636b20}},
429     {TAG_LOCK_UNKNOWN, "unknown lock",
430     {0x756e6b6e, 0x6f776e20, 0x6c6f636b}},
431     {TAG_LOCKT, "lock test",
432     {0x6c6f636b, 0x5f746573, 0x74202020}},
433     {TAG_LOCKU, "unlock",
434     {0x756e6c6f, 0x636b2020, 0x20202020}},
435     {TAG_LOCKU_RESEND, "resend locku",
436     {0x72657365, 0x6e64206c, 0x6f636b75}},
437     {TAG_LOCKU_REINSTATE, "reinstate unlock",
438     {0x7265696e, 0x73742075, 0x6e6c636b}},
439     {TAG_LOOKUP, "lookup",
440     {0x6c6f6f6b, 0x75702020, 0x20202020}},
441     {TAG_LOOKUP_PARENT, "lookup parent",
442     {0x6c6f6f6b, 0x75702070, 0x6172656e}},
443     {TAG_LOOKUP_VALID, "lookup valid",
444     {0x6c6f6f6b, 0x75702076, 0x616c6964}},
445     {TAG_LOOKUP_VPARENT, "lookup valid parent",
446     {0x6c6f6f6b, 0x766c6420, 0x7061726e}},
447     {TAG_MKDIR, "mkdir",
448     {0x6d6b6469, 0x72202020, 0x20202020}},
449     {TAG_MKNOD, "mknod",
450     {0x6d6b6e6f, 0x64202020, 0x20202020}},
451     {TAG_MOUNT, "mount",
452     {0x6d6f756e, 0x74202020, 0x20202020}},

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453     {TAG_OPEN, "open",
454     {0x6f70656e, 0x20202020, 0x20202020}},
455     {TAG_OPEN_CONFIRM, "open confirm",
456     {0x6f70656e, 0x5f636f6e, 0x6669726d}},
457     {TAG_OPEN_CONFIRM_LOST, "lost open confirm",
458     {0x6c6f7374, 0x206f7065, 0x6e5f636f}},
459     {TAG_OPEN_DG, "open downgrade",
460     {0x6f70656e, 0x20646772, 0x61646520}},
461     {TAG_OPEN_DG_LOST, "lost open downgrade",
462     {0x6c737420, 0x6f70656e, 0x20646772}},
463     {TAG_OPEN_LOST, "lost open",
464     {0x6c6f7374, 0x206f7065, 0x6e202020}},
465     {TAG_OPENATTR, "openattr",
466     {0x6f70656e, 0x61747472, 0x20202020}},
467     {TAG_PATHCONF, "pathconf",
468     {TAG_PATHCONF, "pathhconf",
469     {0x70617468, 0x636f6e66, 0x20202020}},
470     {TAG_PUTROOTFH, "putrootfh",
471     {0x70757472, 0x6f6f7466, 0x68202020}},
472     {TAG_READ, "read",
473     {0x72656164, 0x20202020, 0x20202020}},
474     {TAG_READAHEAD, "readahead",
475     {0x72656164, 0x61686561, 0x64202020}},
476     {TAG_READDIR, "readdir",
477     {0x72656164, 0x64697220, 0x20202020}},
478     {TAG_READLINK, "readlink",
479     {0x72656164, 0x6c696e6b, 0x20202020}},
480     {TAG_RELOCK, "relock",
481     {0x72656c6f, 0x636b2020, 0x20202020}},
482     {TAG_REMAP_LOOKUP, "remap lookup",
483     {0x72656d61, 0x70206c6f, 0x6f6b7570}},
484     {TAG_REMAP_LOOKUP_AD, "remap lookup attr dir",
485     {0x72656d70, 0x206c6b75, 0x70206164}},
486     {TAG_REMAP_LOOKUP_NA, "remap lookup named attrs",
487     {0x72656d70, 0x206c6b75, 0x70206e61}},
488     {TAG_REMAP_MOUNT, "remap mount",
489     {0x72656d61, 0x70206d6f, 0x756e7420}},
490     {TAG_RMDIR, "rmdir",
491     {0x726d6469, 0x72202020, 0x20202020}},
492     {TAG_REMOVE, "remove",
493     {0x72656d6f, 0x76652020, 0x20202020}},
494     {TAG_RENAME, "rename",
495     {0x72656e61, 0x6d652020, 0x20202020}},
496     {TAG_RENAME_VFH, "rename volatile fh",
497     {0x72656e61, 0x6d652028, 0x76666829}},
498     {TAG_RENEW, "renew",
499     {0x72656e65, 0x77202020, 0x20202020}},
500     {TAG_REOPEN, "reopen",
501     {0x72656f70, 0x656e2020, 0x20202020}},
502     {TAG_REOPEN_LOST, "lost reopen",
503     {0x6c6f7374, 0x2072656f, 0x70656e20}},
504     {TAG_SECINFO, "secinfo",
505     {0x73656369, 0x6e666f20, 0x20202020}},
506     {TAG_SETATTR, "setattr",
507     {0x73657461, 0x74747220, 0x20202020}},
508     {TAG_SETCLIENTID, "setclientid",
509     {0x73657463, 0x6c69656e, 0x74696420}},
510     {TAG_SETCLIENTID_CF, "setclientid_confirm",
511     {0x73636c6e, 0x7469645f, 0x636f6e66}},
512     {TAG_SYMLINK, "symlink",
513     {0x73796d6c, 0x696e6b20, 0x20202020}},
514     {TAG_WRITE, "write",
515     {0x77726974, 0x65202020, 0x20202020}}

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517 /*

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518 * These flags are for differentiating the search criterion for
519 * find_open_owner(). The comparison is done with the open_owners's
520 * 'oo_just_created' flag.
521 */
522 #define NFS4_PERM_CREATED      0x0
523 #define NFS4_JUST_CREATED      0x1

525 /*
526 * Hashed by the cr_uid and cr_ruid of credential 'oo_cred'. 'oo_cred_otw'
527 * is stored upon a successful OPEN. This is needed when the user's effective
528 * and real uid's don't match. The 'oo_cred_otw' overrides the credential
529 * passed down by VFS for async read/write, commit, lock, and close operations.
530 *
531 * The oo_ref_count keeps track the number of active references on this
532 * data structure + number of nfs4_open_streams point to this structure.
533 *
534 * 'oo_valid' tells whether this struct is about to be freed or not.
535 *
536 * 'oo_just_created' tells us whether this struct has just been created but
537 * not been fully finalized (that is created upon an OPEN request and
538 * finalized upon the OPEN success).
539 *
540 * The 'oo_seqid_inuse' is for the open seqid synchronization. If a thread
541 * is currently using the open owner and it's open_seqid, then it sets the
542 * oo_seqid_inuse to true if it currently is not set. If it is set then it
543 * does a cv_wait on the oo_cv_seqid_sync condition variable. When the thread
544 * is done it unsets the oo_seqid_inuse and does a cv_signal to wake a process
545 * waiting on the condition variable.
546 *
547 * 'oo_last_good_seqid' is the last valid seqid this open owner sent OTW,
548 * and 'oo_last_good_op' is the operation that issued the last valid seqid.
549 *
550 * Lock ordering:
551 *   mntinfo4_t::mi_lock > oo_lock (for searching mi_oo_list)
552 *
553 *   oo_seqid_inuse > mntinfo4_t::mi_lock
554 *   oo_seqid_inuse > rnode4_t::r_statelock
555 *   oo_seqid_inuse > rnode4_t::r_statev4_lock
556 *   oo_seqid_inuse > nfs4_open_stream_t::os_sync_lock
557 *
558 * The 'oo_seqid_inuse'/'oo_cv_seqid_sync' protects:
559 *   oo_last_good_op
560 *   oo_last_good_seqid
561 *   oo_name
562 *   oo_seqid
563 *
564 * The 'oo_lock' protects:
565 *   oo_cred
566 *   oo_cred_otw
567 *   oo_foo_node
568 *   oo_hash_node
569 *   oo_just_created
570 *   oo_ref_count
571 *   oo_valid
572 */

574 typedef struct nfs4_open_owner {
575     cred_t      *oo_cred;
576     int          oo_ref_count;
577     int          oo_valid;
578     int          oo_just_created;
579     seqid4       oo_seqid;
580     seqid4       oo_last_good_seqid;
581     nfs4_tag_type_t oo_last_good_op;
582     unsigned     oo_seqid_inuse:1;
583     cred_t      *oo_cred_otw;

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584     kcondvar_t      oo_cv_seqid_sync;
585     /*
586     * Fix this to always be 8 bytes
587     */
588     uint64_t        oo_name;
589     list_node_t     oo_hash_node;
590     list_node_t     oo_foo_node;
591     kmutex_t        oo_lock;
592 } nfs4_open_owner_t;
_____ unchanged portion omitted

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