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```

        writeback = 0;
        bp = getblock(bo, indir[i], in_lbn, fr->fs_base, 0, 0, 0, 0);
        bmap[bo] = fatblock(fr, mb);
        if (DISKGROUP == 0) {
            softmap_write_attoindirect(ip, READR = indir[i], in_off,
            read, 0, fr->fs_base, 0, 0);
        } else {
            /*
             * Write synchronously so that indirect blocks
             * never point at garbage.
             */
            if ((error = writeback) != 0)
                goto fail;
        }
        atlocb = bmap->fat2_block(indir[i], in_off);
        writeback = 0;
        ip->flag |= IN_CACHED | IN_UPDATE;
    }
}

/* Patch through the indirect blocks, allocating as necessary.
 *
 * We do it in 2 steps:
 * 1. error = bread(ip, indir[i], in_lbn, (indir[i]-fr_base, bmap);
 * 2. if (error) {
 *     writeback;
 *     goto fail;
 * }
 * 3. bmap = (indir[i]-fr_base) > 0;
 *    mb = bmap[indir[i]-in_off];
 *    if (! mb)
 *        goto fail;
 * 4. if (mb == 0) {
 *     writeback;
 *     continue;
 * }
 * 5. if (mb == 0)
 *     printf("fat_blockref(ip, lbn, i - non - 1, NULL);
 *     error = fat_blockref(ip, lbn, pref, (indir[i]-fr_base, cred,
 *     bmap);
 * 6. if (error) {
 *     writeback;
 *     goto fail;
 * }
 * 7. mb = read;
 *     writeback = 0;
 *     bmap = bmap[indir[i], in_lbn, fr->fs_base, 0, 0, 0, 0];
 *     bmap->fat2_block = fatblock(fr, mb);
 *     if (DISKGROUP == 0) {
 *         softmap_write_attoindirect(ip, ip,
 *         indir[i] - 1, in_off, mb);
 *         writeback;
 *     } else {
 *         /*
          * Write synchronously so that indirect blocks
          * never point at garbage.
          */
          if ((error = writeback) != 0)
              goto fail;
        }
    }
    bmap[indir[i] - 1, in_off] = mb;
    if (atlocb == NULL && unmodified < 0)
        unmodified = 1 - 1;
    /*
     * If required, write synchronously, otherwise use
     * delayed write.
     */
    if (flags & S_SYNC) {
        } else {
            writeback;
        }
    }
}

/* Get the data block, allocating if necessary.
 *
 * If mb == 0 {
 *     printf("fat_blockref(ip, lbn, indir[i]-in_off, bmap[i]);
 *     error = fat_blockref(ip, lbn, pref, (indir[i]-fr_base, cred,
 *     bmap);
 *     if (error) {
 *         writeback;
 *         goto fail;
 *     }
 *     mb = read;
 *     writeback = 0;
 *     if (bmap == NULL) {
 *         bmap = getblock(ip, fr->fs_base, 0, 0, 0, 0, 0);
 *         if (flags & S_SYNC) {
 *             softmap_write_attoindirect(ip, ip,
 *             indir[i]-in_off, 0, 0, 0, 0, 0);
 *             writeback;
 *         } else {
 *             /*
              * Write synchronously so that indirect blocks
              * never point at garbage.
              */
              if ((error = writeback) != 0)
                  goto fail;
            }
        }
    }
    bmap[indir[i] - 1, in_off] = mb;
    if (atlocb == NULL && unmodified < 0)
        unmodified = 1 - 1;
    /*
     * If required, write synchronously, otherwise use
     * delayed write.
     */
    if (flags & S_SYNC) {
        } else {
            writeback;
        }
    }
    return (0);
}

writeback;
if (bmap == NULL) {
    if (flags & S_SYNC) {
        error = bread(ip, lbn, (indir[i]-fr_base, bmap);
        if (error) {
            writeback;
            goto fail;
        }
    } else {
        bmap = getblock(ip, fr->fs_base, 0, 0, 0, 0, 0);
        bmap->fat2_block = fatblock(fr, mb);
    }
}
bmap = 0;
return (0);
}

/*
 * If we have failed to allocate any blocks, simply return the error.
 * This is the usual case and avoids the need to trace the file.
 */
if (atlocb == atlocb && atlocb == NULL && unmodified == -1)
    return (error);

/*
 * If we have failed part way through block allocation, we have to
 * deallocate any indirect blocks that we have allocated. We have to
 * pass the file before we start to get rid of all of it.
 * Operations on the file will not be done. The result of the
 * operation is that the file is in a state where the file
 * changes. Although this is really slow, writing out of disk space is
 * not expected to be a common occurrence. The error return from
 * fsync is ignored as we already have an error to return to the user.
 */
bmap[fr->fat2_block, fr->fat2_block, 0, 0, 0, 0, 0];
for (atlocb = 0, bmap = atlocb; bmap = atlocb; bmap++) {
    fatblock(ip, bmap->fat2_block);
    if (atlocb == NULL) {
        writeback = 0;
    } else if (unmodified < 0) {
        if (mb == 0)
            r = bread(ip, indir[i], unmodified, in_lbn, (indir[i]-fr_base, bmap);
            if (r)
                panic("Could not read indirect block, error %d", r);
            bmap = (indir[i]-fr_base) > 0;
            bmap[indir[i]-in_off] = 0;
            if (flags & S_SYNC) {
                } else {
                    writeback;
                }
            }
        }
    }
    if (bmap == NULL) {
        /*
         * Restore user's disk quota because allocation failed.
         */
        fatblock(ip, fr->fat2_block);
        bmap->fat2_block = fatblock(fr, mb);
        ip->flag |= IN_CACHED | IN_UPDATE;
        bmap[fr->fat2_block, fr->fat2_block, 0, 0, 0, 0, 0];
        return (error);
    }
}

/*
 * If the first READR blocks are direct.
 */
if (lbn < READR) {
    mb = ip->fat2_block(lbn);
    if (mb == 0 && ip->fat2_block == 0 && unmodified < 0) {
        /*
         * The direct block is already allocated and the file
         * already has this block. This must be a whole
         * block. Just read it, if requested.
         */
        if (lbn == 0) {
            error = bread(ip, lbn, fr->fs_base, bmap);
            if (error) {
                writeback;
                return (error);
            }
        }
    }
    if (DISKGROUP == 0) {
        softmap_write_attoindirect(ip, mb, read,
        bmap[fr->fat2_block], fr->fs_base, mb,
        bmap[fr->fat2_block]);
        bmap[fr->fat2_block] = 0;
        if (bmap[fr->fat2_block] == 0) {
            bmap[fr->fat2_block] = 0;
            if (flags & S_SYNC) {
                softmap_write_attoindirect(ip, ip,
                indir[i]-in_off, 0, 0, 0, 0, 0);
                writeback;
            } else {
                writeback;
            }
        }
    }
}

/*
 * The first READR blocks are direct.
 */
if (lbn < READR) {
    mb = ip->fat2_block(lbn);
    if (mb == 0 && ip->fat2_block == 0 && unmodified < 0) {
        /*
         * Consider the need to allocate a fragment.
         */
        mb = fragment(ip, bmap[fr->fat2_block], fr->fat2_block,
        mb = fragment(ip, bmap[fr->fat2_block],
        if (mb == 0) {
            /*
             * The existing block is already at least as
             * big as we want. Just read it, if requested.
             */
            if (lbn == 0) {
                error = bread(ip, lbn, fr->fs_base,
                bmap);
                if (error) {
                    writeback;
                    return (error);
                }
            }
            bmap[fr->fat2_block] = mb;
        }
    }
    if (mb == 0) {
        /*
         * The existing block is smaller than we want,
         * so we
         */
        error = fat_blockref(ip, lbn, lbn, lbn,
        fat_blockref(ip, lbn, lbn, lbn,

```

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```

* Update the access, modified, and inode change times as specified by the
  * IN_ACCESS, IN_UPDATE, and IN_CHANGE flags respectively. The IN_GET220
  * flag is used to specify that the inode needs to be updated but that the
  * times have already been set. The IN_CHANGE flag is used to specify
  * that the inode needs to be updated at some point, by reclaim if not
  * in the course of other changes; this is used to defer writes just to
  * update device timestamps. If waitfor is set, then wait for the disk
  * write of the inode to complete.
*/
int
ffs_update(struct inode *ip, int waitfor)

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* the cylinder group map from which it was allocated.
*/
ACQUIRE_SOCK(sock);
if (inodep->inodegroup(ip->i_fs, mininum, DEPALLOC | NODELAY, &inodep)
    != 0) {
    FREE_SOCK(sock);
    panic("softdep_setup_inodepdep: found inode");
}

inodep->id_buf = bp;
inodep->id_state &= ~DEPCOMPLETE;
bufnamep = bufnamep_lookup(ip);
LIST_INSERT_HEAD(bufnamep->iss_inodepdep, inodep, id_deps);
FREE_SOCK(sock);

```

```
/*
 * Find the bmaefemap associated with a cylinder group buffer.
 * If none exists, create one. The buffer must be locked when
 * this routine is called and this routine must be called with
 * splbio interrupts blocked.
```

```
#if defined __GNUC__
    if (!kkt_held_on - 1)
        panic("bmaefmap_lookup: lock not held");
#endif

LIST_FOREACH(snap, &bp->snp_list, vlist) {
    if (sb->m_idx == type && sb->m_idx != 0)
        return (SNM_SNAPPRIV(snap));
}

FREE_LOCK(&ls);
bmaefmap = pool_get(bmaefmap_pool, PM_WAITOK);
bmaefmap->pool = &bmaefmap_pool;
bmaefmap->vlist = &ls;
bmaefmap->vlist->state = 0;
bmaefmap->buf = bp;

LST_INIT(&bmaefmap->val_alloccdrptr);
LST_INIT(&bmaefmap->val_alloccdrptr);
LST_INIT(&bmaefmap->new_valhdr);
ACQUIRE_LOCK(&ls);
MAPLIST_INSERT(&bp->snp_list, &bmaefmap->vlist);
return (bmaefmap);
```

```

*/
/* inode to which block is being added */
/* disk pointer within inode */
/* disk block number being added */
/* previous block number, 0 unless frag */
/* size of new black w/ */
/* size of new black w/ */
/* bp for allocated black w/
void
wafdep_setup_alldirect(struct inode wip, daddr_t lbn, daddr_t newblkno,
daddr_t oldblkno, long newsize, long oldsize, struct buf wbp)
{
    struct alldirect wadp, woldp;
    struct inoafmap winafmap;
    struct inoafmap woldafmap;
    struct pagemap wpagemap;

```

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```
#endif DEBUG
    if (lk.lkt_hold == -1)
        panic("allondirect_merge: lock not held");

#endif
    if (newwdp->ad_adblks != oldwdp->ad_adblks ||
        newwdp->ad_adsize != oldwdp->ad_adsize ||
        newwdp->ad_nu == MAXDIRS) {
        FREE_GOK(lkt);
        panic("allondirect_merge: old wld != new wld || the wld ==

```

```

/* Allocate a new freelist if needed.
 */
static struct freemap *
newfreemap(struct inode wip, daddr_t bino, long size)
{
    struct freemap *frefrag;
    struct fs *fs;

    if (bino == 0)
        return (NULL);
    fs = ipw->fs;
    if (!fragmap(fs, bino) && newfragmap(fs, size) && fs->fs_frag)
        freemap = pool_get(&freemap_pool, PM_MALLOC);
    freemap->list_head = STAILQ_EMPTY;
    freemap->free_state = DDEPIL; /* set below */
    freemap->used_inuse = ipw->lnumber;
    freemap->next = STAILQ_EMPTY;
}

```


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/*
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 *
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 * modification, are permitted provided that the following conditions are met:
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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

#include "common.h"
#include "freesi.h"
#include "freesi_internal.h"
#include "freesi_constants.h"
#include "freesi_error.h"
#include "freesi_log.h"
#include "freesi_memory.h"
#include "freesi_mutex.h"
#include "freesi_queue.h"
#include "freesi_thread.h"
#include "freesi_timer.h"
#include "freesi_util.h"
#include "freesi_version.h"
#include "freesi_workitem.h"

/*
 * Freeside internal constants
 */
#define FREESIDE_MAX_THREADS 16
#define FREESIDE_MAX_WORKITEMS 1024
#define FREESIDE_MAX_QUEUE_SIZE 1024
#define FREESIDE_MAX_BUFFER_SIZE 1024
#define FREESIDE_MAX_STACK_SIZE 1024
#define FREESIDE_MAX_HEAP_SIZE 1024
#define FREESIDE_MAX_MEMORY_SIZE 1024
#define FREESIDE_MAX_FILE_SIZE 1024
#define FREESIDE_MAX_PATH_SIZE 1024
#define FREESIDE_MAX_URL_SIZE 1024
#define FREESIDE_MAX_EMAIL_SIZE 1024
#define FREESIDE_MAX_PHONE_SIZE 1024
#define FREESIDE_MAX_ADDRESS_SIZE 1024
#define FREESIDE_MAX_COMMENT_SIZE 1024
#define FREESIDE_MAX_PASSWORD_SIZE 1024
#define FREESIDE_MAX_USERNAME_SIZE 1024
#define FREESIDE_MAX_HOSTNAME_SIZE 1024
#define FREESIDE_MAX_DOMAIN_SIZE 1024
#define FREESIDE_MAX_IP_SIZE 1024
#define FREESIDE_MAX_PORT_SIZE 1024
#define FREESIDE_MAX_PROTOCOL_SIZE 1024
#define FREESIDE_MAX_METHOD_SIZE 1024
#define FREESIDE_MAX_STATUS_SIZE 1024
#define FREESIDE_MAX_REASON_SIZE 1024
#define FREESIDE_MAX_MESSAGE_SIZE 1024
#define FREESIDE_MAX_ATTACHMENT_SIZE 1024
#define FREESIDE_MAX_METADATA_SIZE 1024
#define FREESIDE_MAX_HEADERS_SIZE 1024
#define FREESIDE_MAX_BODY_SIZE 1024
#define FREESIDE_MAX_RESPONSE_SIZE 1024
#define FREESIDE_MAX_ERROR_SIZE 1024
#define FREESIDE_MAX_LOG_SIZE 1024
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#define FREESIDE_MAX_ENVIRONMENT_SIZE 1024
#define FREESIDE_MAX_SYSTEM_SIZE 1024
#define FREESIDE_MAX_USER_SIZE 1024
#define FREESIDE_MAX_ROLE_SIZE 1024
#define FREESIDE_MAX_PERMISSION_SIZE 1024
#define FREESIDE_MAX_RESOURCE_SIZE 1024
#define FREESIDE_MAX_ACTION_SIZE 1024
#define FREESIDE_MAX_EVENT_SIZE 1024
#define FREESIDE_MAX_NOTIFICATION_SIZE 1024
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#define FREESIDE_MAX_COMPUTING_SIZE 1024
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#define FREESIDE_MAX_SERVICE_SIZE 1024
#define FREESIDE_MAX_API_SIZE 1024
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#define FREESIDE_MAX_FRAMEWORK_SIZE 1024
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#define FREESIDE_MAX_COMPATIBILITIES_SIZE 1024
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        sizepb = NUMBER(fa);           /* XXX */
        fo->fs_maxfilesize = sizepb;   /* XXX */
    }
    fo->fs_gmask = ~fo->fs_bmask;      /* XXX */
    fo->fs_ofmask = ~fo->fs_fmask;     /* XXX */
}
if (fo->fs_avgfilesize <= 0)
    fo->fs_avgfilesize = AVFLENISZ;   /* XXX */
if (fo->fs_avgpdir <= 0)
    fo->fs_avgpdir = APPDIR;          /* XXX */
return (0);

```

```

1         printf("The frame change flag is not valid!\n");
2         mem_ops_init(&_context, &node, &node_desc, &node_desc, &node_desc);
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/*
 * notice, this list of conditions and the following disclaimer:
 * 1. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 2. THE SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
 *    ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 *    WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 *    DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
 *    ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, STRICT
 *    LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 *    OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 *    SUCH DAMAGE.
 */
#define __FreeBSD__ 5.7 /*MacOSX 6.2/100
 * FreeBSD: rc/pic/arc/FreeBSDmap.h, 1.10 2000/06/22 00:20:33 msmith Exp
 */

```

```
#include <sys/types.h>
```

```

/*
 * Allocation dependencies are handled with ucmds/rbds on the in-memory
 * copy of the data. A particular data dependency is characterized as
 * it is allocated: not in memory, DEPENDENT, and COMPLETE.
 *
 * ATTACHED means that the data is not currently being written to
 * disk. BOUND means that the data has been written and is not
 * ready for writing to the disk. When the 1/0 completes, the data is
 * returned to the ucmds/rbds and the data is ready to be ATTACHED.
 * The data must be locked throughout the rollback, 1/0, and roll
 * forward so that the rolled back information is never visible to
 * users.
 *
 * DEPENDENT means that the data has been written to the disk and
 * written. For example, a dependency that requires that an inode be
 * written will be marked COMPLETE after the inode has been written
 * to disk. The DEPENDENT flag indicates the completion of any other
 * dependencies such as the writing of a cylinder group map has been
 * done and its dependencies have completed and any rollback that are in
 * progress have finished an indication for the set of DEPENDENT flags
 * all have been done. The DEPENDENT flag indicates that a dependency
 * that must be done when creating a new directory. DEPENDENT
 * is cleared when the directory data block containing the "C" and "A"
 * entries has been written. DEPENDENT is cleared when the parent
 * inode with the increased link count has been written. When
 * DEPENDENT is cleared, the directory dependencies have been completed.
 * When the directory entry for the new directory is written
 * to disk, the DEPENDENT flag marks a direct structure as representing
 * the results of a directory name space 1/0. The meaning
 * of dependencies are completed, additional work needs to be done
 * is that of the "C" and "A" entries, an additional increment
 * of an existing entry rather than the addition of a new one. When
 * DEPENDENT flag marks a direct structure as representing the changing
 * of an existing entry rather than the addition of a new one. When
 * the update is complete the data associated with the inode for
 * the old name must be added to the DEPENDENT list so the necessary
 * data structure is frozen from further change until its dependencies
 * have been completed and its removal after which it will be
 * discarded. The DEPENDENT flag prevents multiple calls to the 1/0
 * start routine from doing multiple rollbacks. The DEPENDENT flag
 * sets that the first update has been submitted to the ucmds/rbds
 * space count. The DEPENDENT flag marks pending structures that have
 * not been allocated, so they are included in the count before all
 * dependencies are completed. DEPENDENT flag shows whether the
 * structure is currently linked onto a worklist.
 */

```

```

/*
 * ATTACHED BOUNDS
 */
#define COMPLETE_BOUND 0x0000
#define DEPENDENT_BOUND 0x0000
#define DEPENDENT_BOUND 0x0000 /* direct & indirect only */
#define DEPENDENT_BOUND 0x0000 /* direct & indirect only */
#define DEPENDENT_BOUND 0x0000 /* direct & indirect only */
#define DEPENDENT_BOUND 0x0000 /* indirect only */
#define DEPENDENT_BOUND 0x0000 /* indirect only */
#define DEPENDENT_BOUND 0x0000 /* indirect only */
#define DEPENDENT_BOUND 0x0000 /* indirect only */

```

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