```
UUU         UUU    AAAAAAAAA       FFFFFFFFFFFFFFFF
UUU         UUU    AAAAAAAAA       FFFFFFFFFFFFFFFF
UUU         UUU    AAAAAAAAA       FFFFFFFFFFFFFFFF
UUU         UUU    AAA       AAA   FFF
UUU         UUU    AAA       AAA   FFF
UUU         UUU    AAA       AAA   FFF
UUU         UUU    AAA       AAA   FFF
UUU         UUU    AAA       AAA   FFF
UUU         UUU    AAA       AAA   FFFFFFFFFFFF
UUU         UUU    AAA       AAA   FFFFFFFFFFFF
UUU         UUU    AAA       AAA   FFFFFFFFFFFF
UUU         UUU    AAAAAAAAAAAAAA  FFF
UUU         UUU    AAAAAAAAAAAAAA  FFF
UUU         UUU    AAAAAAAAAAAAAA  FFF
UUU         UUU    AAA       AAA   FFF
UUU         UUU    AAA       AAA   FFF
UUU         UUU    AAA       AAA   FFF
UUUUUUUUUUUUUUU    AAA       AAA   FFF
UUUUUUUUUUUUUUU    AAA       AAA   FFF
UUUUUUUUUUUUUUU    AAA       AAA   FFF
```

OAFDEF

SDL

```
{
{ Version:      'V04-000'
{
{*********************************************************************
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{*********************************************************************
```

```
module $OAFDEF;

/*++
/* USER AUTHORIZATION FILE FORMAT
/*--


aggregate OAFDEF structure prefix OAF$;
    USERNAME character length 12;                    /* USERNAME
    PWD_OVERLAY union fill;
        PWD quadword unsigned;                       /* HASHED PASSWORD
        PWD longword unsigned;                       /* 32 BIT SUBFIELD
    end PWD_OVERLAY;
    ACCOUNT character length 8;                       /* ACCOUNT NAME
    UIC_OVERLAY union fill;                           /* USER ID CODE
        UIC longword unsigned;
        UIC_FIELDS structure fill;
            MEM word unsigned;                        /* MEMBER SUBFIELD
            GRP word unsigned;                        /* GROUP SUBFIELD
        end UIC_FIELDS;
    end UIC_OVERLAY;
    DEFDIR character length 32;                       /* DEFAULT DIRECTORY (counted string)
    DEFDEV character length 16;                       /* DEFAULT DEVICE (counted string)
    DEFCLI character length 9;                        /* DEFAULT COMMAND INTERPRETER
    ENCRYPT byte unsigned;                            /* ENCRYPTION ALGORITHM
                                                      /* ENCRYPTION CODES

    constant(
        AD_II                                         /* AUTODIN-II 32 BIT CRC CODE
        Purdy                                         /* Purdy POLYNOMIAL OVER SALTED INPUT
        ) equals 0 increment 1 prefix OAF tag $C;
    CPUTIM longword unsigned;                         /* CPU TIME QUOTA
    PRIV quadword unsigned;                           /* PROCESS PRIVILEGE VECTOR
    BIOLM word unsigned;                              /* BUFFERED I/O LIMIT
    BYTLM word unsigned;                              /* BUFFERED I/O BYTE COUNT LIMIT
    DIOLM word unsigned;                              /* DIRECT I/O LIMIT
    FILLM word unsigned;                              /* OPEN FILE LIMIT
    TQCNT word unsigned;                              /* TIMER QUEUE ENTRY LIMIT
    PRCCNT word unsigned;                             /* SUBPROCESS CREATION LIMIT
    WSQUOTA word unsigned;                            /* WORKING SET SIZE QUOTA
    DFWSCNT word unsigned;                            /* DEFAULT WORKING SET SIZE
    ASTLM word unsigned;                              /* AST QUEUE LIMIT
    ENQLM word unsigned;                              /* ENQUEUE LIMIT
    PGFLQUOTA longword unsigned;                      /* PAGE FILE QUOTA
    OWNER character length 32;                        /* OWNER'S NAME
    FILPRT word unsigned;                             /* DEFAULT FILE PROTECTION
    PRI byte unsigned;                                /* BASE PROCESS PRIORITY
    FLAGS_OVERLAY union fill;
        FLAGS byte unsigned;                          /* USER FLAGS BYTE
        FLAGS_BITS structure fill;
            DISCTLY bitfield;                         /* DON'T ALLOW USER CONTROL-Y
            DEFCLI bitfield;                          /* ONLY ALLOW USER DEFAULT CLI
            LOCKPWD bitfield;                         /* DISABLE SET PASSWORD COMMAND
            CAPTIVE bitfield;                         /* NO OVERIDES ALLOWED ON LOGIN-EG /DISK
            DISACNT bitfield;                         /* DON'T ALLOW INTERACTIVE LOGIN
            DISWELCOM bitfield;                       /* FLAG TO ALLOW LOGIN TO SKIP WELCOME
            DISMAIL bitfield;                         /* FLAG TO ALLOW LOGIN TO SKIP NEW MAIL
```

```
        end FLAGS_BITS;
    end FLAGS_OVERLAY;
    LEVEL longword unsigned;                        /* FOR RECORD AND FILE LEVEL INFO
    LGICMD character length 32;                     /* LOGIN COMMAND FILE (counted string)
    MAIL word unsigned;                             /* LOWEST VERSION OF NEW MAIL.TXT
    PBYTLM longword unsigned;                        /* PAGED BUFFER I/O BYTE COUNT LIMIT
    SHRFILLM word unsigned;                         /* SHARED FILE LIMIT
    USRDATOFF word unsigned;                        /* OFFSET OF COUNTED STRING OF USER DATA
    SALT word unsigned;                             /* RANDOM PASSWORD SALT
    WSEXTENT word unsigned;                         /* WORKING SET SIZE LIMIT
    PDAYHOURS_OVERLAY union fill;
        PDAYHOURS longword unsigned;                /* FIELD DESCRIBING PRIMARY DAY ACCESS
                                                    /* HOURS, FROM 0:00 TO 23:00

        PDAYHOURS_FIELDS structure fill;
            FILL_7 byte dimension 3 fill prefix OAFDEF tag $$;
            PDAYFLAGS_OVERLAY union fill;
                PDAYFLAGS byte unsigned;            /* FLAGS ASSOCIATED WITH PRIMARY DAYS
                PDAYFLAGS_BITS structure fill;
                    DISDIALUP bitfield;             /* SET DISALLOWS DIAL-IN USE OF ACCOUNT
                    DISNETWORK bitfield;            /* SET DISALLOWS NETWORK USE OF ACCOUNT
                end PDAYFLAGS_BITS;
            end PDAYFLAGS_OVERLAY;
        end PDAYHOURS_FIELDS;
    end PDAYHOURS_OVERLAY;
    SDAYHOURS_OVERLAY union fill;
        SDAYHOURS longword unsigned;                /* FIELD DESCRIBING SECONDARY DAY ACCESS
                                                    /* HOURS, 0:00 TO 23:00

        SDAYHOURS_FIELDS structure fill;
            FILL_8 byte dimension 3 fill prefix OAFDEF tag $$;
            SDAYFLAGS byte unsigned;                /* FLAGS ASSOCIATED WITH SECONDARY DAY
                                                    /* USAGE: SEE PDAYFLAGS
        end SDAYHOURS_FIELDS;
    end SDAYHOURS_OVERLAY;
    MAXPROC byte unsigned;                          /* MAXIMUM PROCESSES FOR UIC ALLOWED
                                                    /* 0 MEANS NO LIMIT
    MAXGRPROC byte unsigned;                        /* MAXIMUM PROCESSES FOR GROUP ALLOWED
                                                    /* 0 MEANS NO LIMIT

    PRIMEDAYS_OVERLAY union fill;
        PRIMEDAYS byte unsigned;                    /* BITS REPRESENTING PRIMARY DAYS
        PRIMEDAYS_BITS structure fill;
            MONDAY bitfield;                        /* BIT CLEAR MEANS THIS IS A PRIMARY DAY
            TUESDAY bitfield;                       /* BIT SET MEANS THIS IS AN OFF DAY
            WEDNESDAY bitfield;
            THURSDAY bitfield;
            FRIDAY bitfield;
            SATURDAY bitfield;
            SUNDAY bitfield;
        end PRIMEDAYS_BITS;
    end PRIMEDAYS_OVERLAY;
    MAXDETACH byte unsigned;                        /* MAXIMUM DETACHED PROCESSES FOR UIC
                                                    /* 0 MEANS NO LIMIT
    BYTLM longword unsigned;                        /* BUFFERED I/O BYTE COUNT LIMIT
                                                    /*                    (longword)
    CLITABLES character length 32;                  /* USER CLI TABLES
    QUEPRI byte unsigned;                           /* Maximum job queuing priority
    JTQUOTA longword unsigned;                      /* Job-wide Logical Name Table Creation Quota
```

```
    FILL_2 byte dimension 19 fill prefix OAFDEF tag $$; /* fixed length field expansion
    constant FIXED equals . prefix OAF$ tag K;              /* LENGTH OF FIXED PORTION
    constant FIXED equals . prefix OAF$ tag C;              /* LENGTH OF FIXED PORTION
    FILL_6 byte dimension 768 fill prefix OAFDEF tag $$;/* variable length field region
    constant "LENGTH" equals . prefix OAF$ tag K;
    constant "LENGTH" equals . prefix OAF$ tag C;
end OAFDEF;

end_module $OAFDEF;
```

AUTHORIZE
CLD

ONFDEF
SDL

UAF

AUTHORIZE
MAP

CVTUAF
MAP

UAFREQ
SDL

YFDRIVER
LIS

CVTNAF
LIS

OAFDEF
SDL

CVTNAF
MAP

CVTUAF
LIS