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Display the N^{th} entry of a directory (DR:DSPN in OPERCL)

Parameters:

IP1) C: A directory

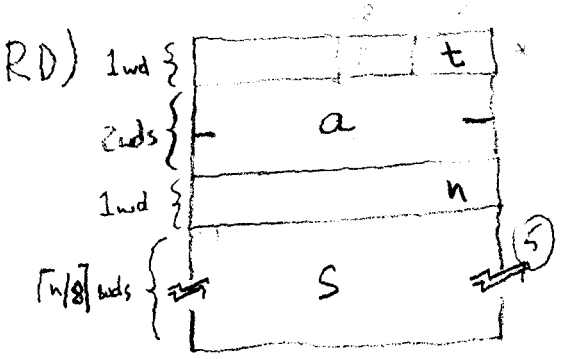
IP2) D: A positive integer, [(2,0) error if IP2 ≤ 0]

Action:

If the directory contains fewer than IP2 entries, FRETURN. Otherwise, information describing the $IP2^{th}$ entry is returned in the format shown below.

Returns:

RD)

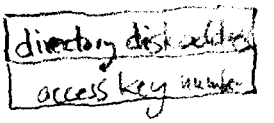


where t = entry type = { 0 ≡ soft link, 2 ≡ hard link, 3 ≡ ownership }

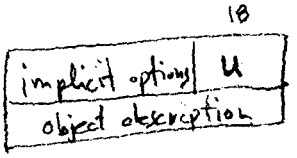
n = character count, $1 \le n \le 40$ *

s = a character string of length n, left justified in the rightmost 56 bits of each word. [Left most 4 bits=0.]

a = additional information:



if t = 0



if t = 2, 3

where u = 0, 1, 2, ..., 5 specifies File, directory, ..., access key

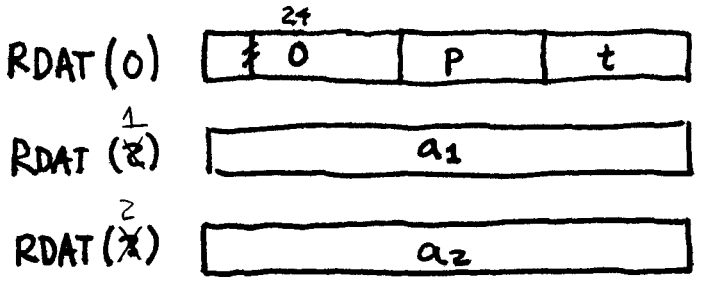
(* the number 40 is an assembly parameter of the directory system)

Display a Directory Entry (DR:DSPE)

Input parameters:

IP1 C: A directory
IP2 BD: A name

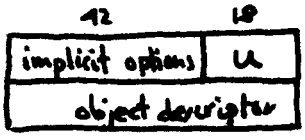
Return parameters:



p = number of access pairs this entry

t = entry type = { 0 if softlink; 2 if hardlink; 3 if ownership }

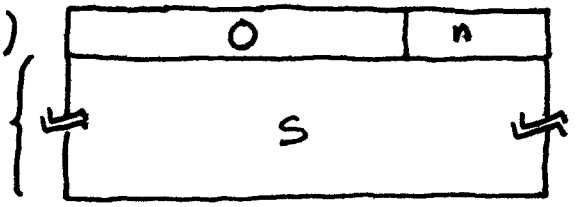
a_1, a_2 = { directory descriptor; access key descriptor } if t=0



if t=2,3

and, if t=0,

RDAT(3, ... 3+⌈n/8⌉)



and u = { 0 if file; 1 if directory; 2 if subprocess descr.; 3 if static name tag; 4 if dynamic name tag; 5 if access key }

n = character count, $1 \le n \le 40$

S = a character string of length n, LJZF in the rightmost 56 bits of each word [Leftmost 4 bits = 0]. } S = softlink name

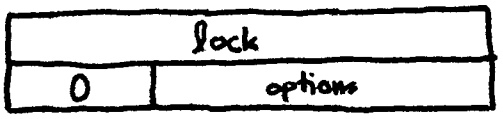
Display Directory Entry Access Pairs (DR:DAP)

Input parameters:

IP1 C: A directory
IP2 BD: An entry name
IP3 D: An integer i, $i \geq 1$
IP4 D: An integer n, $n \geq 1$

Return parameters:

RDAT($2(j-1)$)
RDAT($2(j-1)+1$)



} $(i+j-1)^{th}$ access pair

$j = 1, 2, \cdots, \min(n, k)$

where k is an assembly parameter.

Action:

The i^{th} through the $(i+n-1)^{th}$ access pairs of the given directory entry are returned as shown. The action never FRETURNs; if $(i+n-1)$ is greater than the total number of pairs, as many as are present (but never more than k) are returned.

Display Directory Successor Pointer (DR:DSPS)

Input parameter:

IP1 C: A directory

Return parameters:

Action:

If the directory IP1 has no successor pointer, this action FRETURNs. Otherwise, two words are returned as shown above.