Change to indirect C-test specifications:

OLD:

NEW:

direct is the index of a capability for a C-test in the full C-test.

indirect is the index of the desired capability in the C-test specified by direct.
Very preliminary specification of block data + block capability parameter types:

D. 6. Change parameter from "none" to "block capability" data

\[
\begin{align*}
IP1 & : C \text{ for operation (OB.CNTYP)} \\
IP2 & : D \text{ for parameter index} \\
TPB & : \\
\end{align*}
\]

D. 7. Change parameter from "none" to "block capability"

\[
\begin{align*}
IP1 & : D \text{ same as D.6} \\
\text{etc} & \\
\end{align*}
\]

Form of block data parameter in IP-list:

\[
\begin{array}{c}
30 \\
\text{param PTR}
\end{array}
\]

Form of block cap parameter in IP-list:

\[
\begin{array}{c}
30 \\
\text{cap2 INDX}
\end{array}
\]
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Preliminary description of return with parameters operation; will go on about page 34 of USER MANUAL:

M. Return with Parameters

IP1 D: Parameter specification
IP2 D: Capability specification

The parameter specification has the form

```
5q
# params | ptr to first one
```

and the capability specification has the form

```
5q
# caps | index of first one
```

Parameters from the full address space and capabilities from the full C-list of the subprocess requesting the action are returned to the full address space and full C-list determined by the top of the stack. Provided, of course, that all pointers, counts, indices, etc., in both subprocesses are legal. In particular, the P-counter in the stack must point to a CEJ which indicates a return authorization as indicated on p. 4. The authorization looks like this:

```
PTR after CEJ
# returned | # allowed | ptr to param buffer
# returned | # allowed | index of first cap
```

Both "# returned" fields are set by the operation to the actual number returned. Attempting to return more than the authorization allows is not an error.

The error list associated with this operation is not yet compiled.

Alteration to p. 4 of USER MANUAL:

```
CEJ | IP list pointer | BIT | P-counter offset
5q 30 29 16 17 0
```

\[
BIT = \begin{cases} 
0, & \text{if no return authorized} \\
1, & \text{if return authorized} 
\end{cases}
\]

When BIT = 1, the word following the CEJ must contain the return authorization PTR:

```
unconditional jp PTR
```