MCR10212
Improve eis_tester -io documentation
Revision 1.0

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1 Problem Description

Ticket #202 states that the description of the eis_tester script option `-io` (AR97-03, page 2-50, and the comment in `et_inst.pl1`) is confusing. It calls the value an offset, says the default places the instruction at word 0 of the second page, and then says the value is the number of instruction words in the first page.

Both readings are in fact the same, as the code shows. In `etx.alm`, `instruction_area` is the 3 words just before a page boundary (`org 1024*2-3`), followed by `instr_page_2`. `et.pl1` places the instruction at `instruction_area + (3 - X)`. So the instruction starts X words before the boundary, and its first X words (the instruction word and its first X−1 descriptors) are in the first page.

2 Proposed Fix

Documentation only:

- `ar97.errata.info`: a new entry for page 2-50 replacing the description of `-io N` with: "positions the instruction relative to a page boundary. The instruction starts N words before the boundary, so its first N words (the instruction word and its first N-1 descriptors) are in the first page and the rest are in the second. N can be 0 to 3; the default is 0, which places the instruction word at word 0 of the second page." The date in the `:Info:` line is updated.
- `et_inst.pl1`: the same wording in the comment that documents the option (comment only; no object change).

The `compare_ascii` output showing the differences between the installed `et_inst.pl1` and the proposed version is below:

```
cpa [lpn et_inst.pl1] ==

A58         *                       the instruction on a page boundary. The default is 0.
    This
A59         *                       will place the instruction at word 0 of the second page
```

```
A60         *                       of the instruction area. X indicates the number of
    words of
A61         *                       the instruction which will be placed in the first page
    of the
A62         *                       instruction area. The maximum value of X is 3.
Changed by B to:
B58         *                       the instruction relative to a page boundary: the
    instruction
B59         *                       starts X words before the boundary, so its first X
    words
B60         *                       (the instruction word and its first X-1 descriptors)
    are in
B61         *                       the first page of the instruction area and the rest
    are in
B62         *                       the second. The default is 0, which places the
    instruction
B63         *                       word at word 0 of the second page. The maximum value
    of X
B64         *                       is  3.  (et converts X to an offset from the start of
B65         *                       etx$instruction_area, which is 3 words before the
    boundary.)

Comparison finished: 1 difference, 13 lines.
```

The compare_ascii output showing the differences between the installed ar97.errata.info and the proposed version is below:

```
cpa >doc>info>ar97.errata.info ==

A1       :Info: ar97.errata: errata.ar97: System_Diagnostic_Aids: 2022-10-30 AR97 Errata
Changed by B to:
B1       :Info: ar97.errata: errata.ar97: System_Diagnostic_Aids: 2026-10-10 AR97 Errata


Inserted in B:
B25      pg 2-50:
B26
B27         In the description of the "-io N" script option,
B28
B29          CHANGE:
B30            defines the instruction offset. It is used to position the
B31            instruction relative to a page boundary. The default is 0.
B32            This places the instruction at word 0 of the second page of the
B33            instruction area. X indicates the number of words of the
B34            instruction to be placed in the first page of the instruction
B35            area. The maximum value of X is 3.
B36
B37          TO:
B38            positions the instruction relative to a page boundary. The
B39            instruction starts N words before the boundary, so its first N
B40            words (the instruction word and its first N-1 descriptors) are
```

```
B41            in the first page and the rest are in the second. N can be 0
B42            to 3; the default is 0, which places the instruction word at
B43            word 0 of the second page.
B44
B45
Preceding:
A25      :hcom:

Comparison finished: 2 differences, 23 lines.
```

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3 Documentation

As above.

4 Test

`verify_info ar97.errata.info`.

5 Files Changed

>doc>info	ar97.errata.info
bound_eis_tester_.s.archive	et_inst.pl1 (comment only)

6 Version History

2026-10-10	1.0	Initial version of the MCR.