

# Structs Ids List Format

WORK IN PROGRESS

The Struct Ids List format is a comma delimited string format for storing references to mnemonics. It is used in various Definitions such as the [Profile Definition](#) to store which mnemonics should be included in the Export Package.

The string format should be parsed as:

- Comma delimited, whitespace ignored
- For each item in list:
  - unroll each instance of `#[]`
  - instance can only contain numeric values or numeric ranges
  - characters before `#` and after `]` should be prefixed and appended to each unrolled item, respectively
- For each unrolled item:
  - if starts with `@`, treat as `ext_id`
  - if starts with a digit
    - if contains `-`, treat as a numeric range
    - else, treat as single `mn_id`
  - otherwise treat as `name[:subname]` (aka mn key)

A numeric range is shorthand syntax for a range of numbers. For example `3-6` should be expanded to `3,4,5,6`.

## Example:

```
@#[1,2,3]sci,name;subname,@100sci,@#[1,5-6,13,15-17]raw,15,20-22,#[40,50-52],30,name2
```

Will be parsed into:

```
mn_ids: [ 15, 20, 21, 22, 40, 50, 51, 52, 30 ]
```

```
ext_ids: [ "1sci", "2sci", "3sci", "100sci", "1raw", "5raw", "6raw", "13raw", "15raw", "16raw", "17raw" ]
```

```
mn keys: [ "name;subname", "name2" ]
```

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