Name

nmalyzr — Tool for nm output size analysis

Synopsis

```
\label{local-cont} $$ \max\{zr [-o|--out-file < file>] [-T|--text-input] [-V|--verbose [0-3]] [-E|--filter < regexp>] [-S|--symbol-types < st>] [--kb] [-n|--ns < namespace-list>] [-c|--class < class-list>] [-N|--ns-summary] [-C|--class-summary] [-I|--show-internal-ns] [--help] [input-file ...]
```

DESCRIPTION

nmalyzr builds size summaries for demangled C++ nm symbol information from executable, library, object, or nm output format text files. A summary is build for all nm symbol types found in the input. By default nmalyzr takes one or more object, library or executable input files, calls 'nm -C -S --size-sort' internally and filters and analyzes the output directly.

EXAMPLE:

```
$ nmalyzr a.out
Summary by symbol type:
Size #Symbols
Type
D
         8409088
                        2
                        3
d
        12612104
В
        12632148
                        3
        29404076
                        7
t
        33686044
                        8
b
       105375800
                       25
Ι
Т
       218400684
                       52
i
       231831388
                       55
       438154980
                      103
```

Additionally symbols from the input can be filtered by certain namespace or class symbol names.

EXAMPLE:

NOTE: The class name must be specified as appearing in the demangled output, including any default template parameters expanded by the compiler.

If the input is provided through stdin, or the --text-input option is specified the input must conform the output produced by 'nm -C -S --size-sort'.

nmalyzr declares certain 'internal' namespace names, that can be used with the --ns option to match special symbols from the input:

kmap>	Matches symbols starting with '.'
<sysinternal></sysinternal>	Matches symbols starting with ''
<system></system>	Matches symbols starting with '_'
<global></global>	Matches any other symbols that have no namespace or class prefix

OPTIONS

Analyze given nm demangled C++ output regarding size information.

-o <file>,out- file=<file></file></file>	Allows to specify an output filename, by default all output will be written to stdout.
-T,text-input	Input is processed from stdin or specified input files rather than calling nm internally.
-V [0-3], -verbose [=0-3]	Produces verbose output for the summaries. Levels are:
	0 = Display no details on symbols
	1 = Display all symbols considered from input
	2 = Display all symbols considered for namespaces
	3 = Display all symbols considered for classes
-E <regexp>, filter=<regexp></regexp></regexp>	Filters the input by <regexp> before analyzing.</regexp>
-S <st>,symbol- types=<st></st></st>	Filters the input by symbol types before analyzing. <st> can contain one or more characters used as symbol types by nm.</st>
kb	Shows all sizes in kilobytes.
<pre>-n <namespace-list>,ns=<namespace-list></namespace-list></namespace-list></pre>	Filters the input to match at least one symbol from the given <namespace-list> before analyzing, multiple namespaces are separated using the ';' character.</namespace-list>
-c <class-list>, class=<class-list></class-list></class-list>	Filters the input to match at least one class symbol from the given <class-list> before analyzing, multiple class symbols are separated using the ';' character.</class-list>
-N,ns-summary	Shows a summary by namespace (automatically ifns option is used).
-C,class-summary	Shows a summary by class (automatically ifclass option is used).
-I,show-internal-ns	Shows all internal namespaces.
help	Shows a help text.

AUTHOR

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SEE ALSO

nm(1)