

Project CASA – Change request: Parsing with IO/posix modules

Modules posix and IO are used for parsing the input file. Right now the original CASA program has several possible combinations of input.

```
" -o, --output      [FILE]  write to the given file, regardless of seed\n"
" -c, --constrain  [FILE]  incorporate the given constraint file\n"
"\n"
" -s, --seed       [SEED]  set the seed value for the random number generator\n"
"\n"
" -i, --iterations [COUNT] set the initial number of iterations allowed at each array
size\n"
" -r, --retries    [COUNT] set the number of retries allowed at the same array size\n"
" -p, --partition  [RATIO]  set the weight of the upper bound in the binary search
partition\n"
"\n"
" -t, --temperature [TEMP]  set the initial temperature\n"
" -d, --multiplier  [RATIO]  set the temperature multiplier applied each iteration\n"
"\n"
" -l, --lower-bound [SIZE]  let the covering array be no smaller than the given size\n"
" -u, --upper-bound [SIZE]  let the covering array be no larger than the given size\n"
" -n, --known-size  [SIZE]  lock the covering array at the given size\n"
"\n"
" -v, --version                      show the current version and exit\n"
" -h, --help                        show this help and exit\n";
```

So far we do not require most of the combinations of input. Considering this fact and our limited time we have decided to not implement these posix and IO because we only need these following rows:

```
" -o, --output      [FILE]  write to the given file, regardless of seed\n"
" -c, --constrain  [FILE]  incorporate the given constraint file\n"
```

This is the reason why we will implement our own input par