Propagating Value Ranges Through the Detected Sequence of Branches

```
if ((c ≥ 'a' && c ≤ 'z') ||
    (c ≥ 'A' && c ≤ 'Z') ||
    (c ≥ '0' && c ≤ '9') ||
    (c == '_'))
   {...}
```

Direct Mapped Cache Work

$$CacheWork = i\_CacheHit + 10 * (i\_CacheMiss) + 9 * (d\_CacheMiss)$$

Cache Size	Instruction	Data	Total
1K	-5.761%	8.438%	−3.746%
2K	-7.591%	6.673%	−6.172%
4K	-5.988%	3.077%	−5.065%
8K	-5.877%	1.310%	−5.611%
16K	-5.997%	2.230%	−5.448%
32K	-5.887%	2.891%	−5.554%