```
12.89MB
          73.40MB (flat, cum) 9.69% of Total
                       30:)
                       31:
                       32://const filePath string = "./data/users.txt"
                      33:// вам надо написать более быструю оптимальную этой функции
                       34:func FastSearch(out io.Writer) {
 1.56kB
            1.56kB
                            wg := &sync.WaitGroup{}
  192B
              192B
                            mu := &sync.Mutex{}
           56.37MB
                            fileContents, err := ioutil.ReadFile(filePath)
                       38:
                             if err != nil {
                       39:
                                     panic(err)
                       40:
11.16kB
           11.16kB
                            buf := bytes.Buffer{}
                            buf.WriteString("found users:\n")
                       43:
 4.78kB
            4.78kB
                       44:
                            seenBrowsers := make(map[string]string)
                             //foundUsers := ""
                       45:
            2.39MB
                             lines := bytes.Split(fileContents, []byte("\n"))
                            users := make([]User, len(lines))
12.88MB
           12.88MB
                       48:
                            for i, line := range lines {
                       49:
                       50:
                                     wg.Add(1)
                                    go func(line []byte, user *User) {
                       52:
                                             defer wg.Done()
                       53:
                                             err := user.UnmarshalJSON(line)
```

(pprof)

if err != nil {

55:

panic(err)

	57:	for _, browserRaw := range user.Browsers {
	58:	//if ok, err := regexp.MatchString("Android", browser); ok && err == nil {
	59:	: if strings.Contains(browserRaw, "Android") {
	60:	user.isAndroid = true
	61:	mu.Lock()
	62:	seenBrowsers[browserRaw] = exists
	63:	mu.Unlock()
	64:	: } else if strings.Contains(browserRaw, "MSIE") {
	65:	user.isMSIE = true
	66:	mu.Lock()
	67:	seenBrowsers[browserRaw] = exists
	68:	mu.Unlock()
	69:	}
	70:)
	71:	: : }(line_ &users[i])

192B 73: wg.Wait()

74: 75: for i := 0; i < len(users); i++ { if !(users[i].isAndroid && users[i].isMSIE) {

continue

```
567.38kB
                          users[i].Email = strings.Replace(users[i].Email, "@", " [at] ", -1)
```

buf.WriteByte('[') 80: (pprof)

```
yudintsevegor@TARS: ~/go_projects/src/golang-2018-2/5/99_hw/optimization
File Edit View Search Terminal Help
              192B
                          wg.Wait()
                          for i := 0; i < len(users); i++ {
                                 if !(users[i].isAndroid && users[i].isMSIE) {
                      76:
                                        continue
                                 users[i].Email = strings.Replace(users[i].Email, "@", " [at] ", -1)
          567.38kB
                                 buf.WriteByte('[')
                      80:
                                 buf.WriteString(strconv.Itoa(i))
           22.28kB
                      81:
                                 buf.WriteByte(']')
                      82:
                                 buf.WriteByte(' ')
           35.06kB
                      83:
                      84:
                                 buf.WriteString(users[i].Name)
                      85:
                                 buf.WriteByte(' ')
             306kB
                      86:
                                 buf.WriteByte('<')</pre>
          852.66kB
                      87:
                                 buf.WriteString(users[i].Email)
                      88:
                                 buf.WriteByte('>')
                      89:
                                 buf.WriteString("\n")
                      90:
                          buf.WriteString("\nTotal unique browsers ")
               32B
                          buf.WriteString(strconv.Itoa(len(seenBrowsers)))
                          buf.WriteString("\n")
                      93:
            4.75kB
                          buf.WriteTo(out)
                      96:
                      97:var (
                            *json.RawMessage
                      99:
                           _ *jlexer.Lexer
```

File Edit View Search Terminal Help

```
1.96MB
           53.78MB (flat, cum) 7.10% of Total
                     48:
                     49:
                          for i, line := range lines {
                                wg.Add(1)
                     50:
                                go func(line []byte, user *User) {
                     51:
                     52:
                                       defer wg.Done()
           51.72MB
                     53:
                                       err := user.UnmarshalJSON(line)
                                       if err != nil {
                     54:
                     55:
                                              panic(err)
                     56:
                                       for _, browserRaw := range user.Browsers {
                     57:
                                       //if ok, err := regexp.MatchString("Android", browser); ok && err == nil {
                     58:
                                              if strings.Contains(browserRaw, "Android") {
                     59:
                     60:
                                                     user.isAndroid = true
           66.94kB
                     61:
                                                     mu.Lock()
                                                     seenBrowsers[browserRaw] = exists
   1.32MB
            1.32MB
                     62:
                     63:
                                                     mu.Unlock()
                                              } else if strings.Contains(browserRaw, "MSIE") {
                     64:
                                                     user.isMSIE = true
                     65:
           32.44kB
                                                     mu.Lock()
                     66:
                                                     seenBrowsers[browserRaw] = exists
         651.28kB
 651.28kB
                     67:
                                                     mu.Unlock()
                     68:
                     69:
                                }(line, &users[i])
(pprof)
(pprof)
(pprof)
```