

(pprof) list SlowSearch

(pprof) Total: 758.13MB

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ROUTINE ===== command-line-arguments.SlowSearch in /home/yudintsevegor/go\_projects/src/golang-2018-2/5/99\_hw/optimization/common.go

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3.29MB 626.47MB (flat, cum) 82.63% of Total

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. 12:)

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. 13:

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. 14:const filePath string = "./data/users.txt"

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. 15:

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. 16:func SlowSearch(out io.Writer) {

:

. 304B 17: file, err := os.Open(filePath)

:

. 18: if err != nil {

:

. 19: panic(err)

:

. 20: }

:

. 21:

:

. 5.50MB 22: fileContents, err := ioutil.ReadAll(file)

. 23: if err != nil {

:

. 24: panic(err)

:

. 25: }

:

. 26:

:

. 1.45kB 27: r := regexp.MustCompile("@")

:

. 28: seenBrowsers := []string{}

:

. 29: uniqueBrowsers := 0

:

. 30: foundUsers := ""

:

. 31:

:

1.64MB 1.67MB 32: lines := strings.Split(string(fileContents), "\n")

:

. 33:

:

. 34: users := make([]map[string]interface{}, 0)

:

. 35: for \_, line := range lines {

:

(pprof) □

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109.42kB 109.42kB 36:         user := make(map[string]interface{})
           .      37:             // fmt.Printf("%v %v\n", err, line)
           .      38:         err := json.Unmarshal([]byte(line), &user)
1.13MB   4.56MB 39:             if err != nil {
           .      40:                 panic(err)
           .      41:             }
31.98kB  31.98kB 42:         users = append(users, user)
           .      43:     }
           .      44:     :
           .      45:     for i, user := range users {
           .      46:         :
           .      47:             isAndroid := false
           .      48:             isMSIE := false
           .      49:         :
           .      50:         browsers, ok := user["browsers"].([]interface{})
           .      51:         if !ok {
           .      52:             // log.Println("cant cast browsers")
           .      53:             continue
           .      54:         }
           .      55:         :
           .      56:         for _, browserRaw := range browsers {
           .      57:             browser, ok := browserRaw.(string)
           .      58:             if !ok {
           .      59:                 // log.Println("cant cast browser to string")
           .      60:                 continue
           .      61:             }
           .      62:         :
           .      63:         if ok, err := regexp.MatchString("Android", browser); ok && err == nil {
309.66MB

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64:         isAndroid = true
65:         notSeenBefore := true
66:         for _, item := range seenBrowsers {
67:             if item == browser {
68:                 notSeenBefore = false
69:             }
70:         }
71:         if notSeenBefore {
72:             // log.Printf("SLOW New browser: %s, first seen: %s", browser, user["name"])
73:             seenBrowsers = append(seenBrowsers, browser)
74:             uniqueBrowsers++
75:         }
76:     }
77: }
78:
79: for _, browserRaw := range browsers {
80:     browser, ok := browserRaw.(string)
81:     if !ok {
82:         // log.Println("cant cast browser to string")
83:         continue
84:     }
85:     if ok, err := regexp.MatchString("MSIE", browser); ok && err == nil {
86:         isMSIE = true
87:         notSeenBefore := true
88:         for _, item := range seenBrowsers {
89:             if item == browser {
90:                 notSeenBefore = false

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      85:         if ok, err := regexp.MatchString("MSIE", browser); ok && err == nil {
      86:             isMSIE = true
      87:             notSeenBefore := true
      88:             for _, item := range seenBrowsers {
      89:                 if item == browser {
      90:                     notSeenBefore = false
      91:                 }
      92:             }
      93:             if notSeenBefore {
      94:                 // log.Printf("SLOW New browser: %s, first seen: %s", browser, user["name"])
      95:                 seenBrowsers = append(seenBrowsers, browser)
      96:                 uniqueBrowsers++
      97:             }
      98:         }
      99:     }
     100:
     101:     if !(isAndroid && isMSIE) {
     102:         continue
     103:     }
     104:
     105:     // log.Println("Android and MSIE user:", user["name"], user["email"])
     106:     email := r.ReplaceAllString(user["email"].(string), " [at] ")
     107:     foundUsers += fmt.Sprintf("[%d] %s <%s>\n", i, user["name"], email)
     108: }
     109:
     110: fmt.Fprintln(out, "found users:\n"+foundUsers)
     111: fmt.Fprintln(out, "Total unique browsers", len(seenBrowsers))

```