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Text Part Number: 78EE117C99-1124672753
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Contents

1.1 buffer-xor 1.0.3
   1.1.1 Available under license
1.2 libxslt 1.1.34
   1.2.1 Available under license
1.3 asn1.js 2.0.19
   1.3.1 Available under license
1.4 util-linux 2.35.1
   1.4.1 Available under license
1.5 chokidar 1.7.0
1.6 pvutils 1.0.12
1.7 openssl 1.1.1j
   1.7.1 Available under license
1.8 babel-plugin-transform-es2015-block-scoped-functions 6.22.0
1.9 object.assign 4.1.1
   1.9.1 Available under license
1.10 invariant 2.2.4
   1.10.1 Available under license
1.11 babel-plugin-transform-es2015-computed-properties 6.24.1
1.12 bridgeutils 1.6
   1.12.1 Available under license
1.13 backbone.radio 2.0.0
   1.13.1 Available under license
1.14 once 1.4.0
   1.14.1 Available under license
1.15 minimatch 3.0.4
   1.15.1 Available under license
1.16 wrappy 1.0.2
  1.16.1 Available under license
1.17 regjsparser 0.1.5
  1.17.1 Available under license
1.18 libfastjson 0.99.8
  1.18.1 Available under license
1.19 js-cookie 2.1.4
  1.19.1 Available under license
1.20 prompt-toolkit 3.0.2
  1.20.1 Available under license
1.21 python-certifi 2019.9.11
  1.21.1 Available under license
1.22 rsyslog 8.2006.0
  1.22.1 Available under license
1.23 number-is-nan 1.0.1
  1.23.1 Available under license
1.24 core-util-is 1.0.2
  1.24.1 Available under license
1.25 redis 3.2.0
  1.25.1 Available under license
1.26 babel-plugin-transform-es2015-modules-commonjs 6.26.0
  1.26.1 Available under license
1.27 safe-buffer 5.1.2
  1.27.1 Available under license
1.28 graceful-fs 4.1.11
  1.28.1 Available under license
1.29 babel-types 6.26.0
1.30 ldap-filters 2.2.2
  1.30.1 Available under license
1.31 lunr 0.7.2
  1.31.1 Available under license
1.32 ifupdown 0.8.16
  1.32.1 Available under license
1.33 babel-helpers 6.24.1
1.34 bash 5.0.16
  1.34.1 Available under license
1.35 pkijs 2.1.10
  1.35.1 Available under license
1.36 docker 4.1.0
  1.36.1 Available under license
1.37 schema-utils 0.4.7
   1.37.1 Available under license
1.38 libdnet 1.11
   1.38.1 Available under license
1.39 regenerator-runtime 0.11.1
1.40 babel-helper-regex 6.26.0
1.41 liblogging 1.0.6
   1.41.1 Available under license
1.42 ntp 4.2.8p15
   1.42.1 Available under license
1.43 des.js 1.0.0
   1.43.1 Available under license
1.44 underscore 1.8.3
   1.44.1 Available under license
1.45 js-tokens 3.0.2
   1.45.1 Available under license
1.46 color-convert 1.9.1
   1.46.1 Available under license
1.47 async-timeout 3.0.0
   1.47.1 Available under license
1.48 ipython-genutils 0.2.0
   1.48.1 Available under license
1.49 djangorestframework 3.8.2
   1.49.1 Available under license
1.50 python 3.8.2
   1.50.1 Available under license
1.51 isobject 2.1.0
   1.51.1 Available under license
1.52 loose-envify 1.3.1
   1.52.1 Available under license
1.53 amqp 2.5.2
   1.53.1 Available under license
1.54 is-equal-shallow 0.1.3
   1.54.1 Available under license
1.55 django-auth-ldap 1.7.0
   1.55.1 Available under license
1.56 certifi 2019.11.28
   1.56.1 Available under license
1.57 babel-plugin-transform-regenerator 6.26.0
1.58 is-posix-bracket 0.1.1
  1.58.1 Available under license
1.59 util-linux 2.35.1
  1.59.1 Available under license
1.60 packaging 16.8
  1.60.1 Available under license
1.61 css-selector-tokenizer 0.7.0
  1.61.1 Available under license
1.62 wcwidth 0.1.7
  1.62.1 Available under license
1.63 docker-compose 1.24.1
  1.63.1 Available under license
1.64 regexpu-core 1.0.0
  1.64.1 Available under license
1.65 python-docker 2.0.2
  1.65.1 Available under license
1.66 pendulum 2.0.4
  1.66.1 Available under license
1.67 soundex 0.2.1
  1.67.1 Available under license
1.68 ndisc 1.0.4
  1.68.1 Available under license
1.69 gojsonpointer e0fe6f68307607d540ed8eac07a342c33fa1b54a
  1.69.1 Available under license
1.70 repeat-element 1.1.2
  1.70.1 Available under license
1.71 has-ansi 2.0.0
  1.71.1 Available under license
1.72 parse-glob 3.0.4
  1.72.1 Available under license
1.73 et-xmlfile 1.0.1
1.74 daphne 2.4.1
  1.74.1 Available under license
1.75 nginx 1.17.7
  1.75.1 Available under license
1.76 string_decoder 1.1.1
  1.76.1 Available under license
1.77 babel-register 6.26.0
1.78 regexpu-core 2.0.0
1.78.1 Available under license
1.79 browserify-des 1.0.2
   1.79.1 Available under license
1.80 is-glob 2.0.1
   1.80.1 Available under license
1.81 safe-buffer 5.1.1
   1.81.1 Available under license
1.82 libsodium 1.0.18
   1.82.1 Available under license
1.83 css-selector-tokenizer 0.7.1
   1.83.1 Available under license
1.84 ldap-filter 0.2.1
   1.84.1 Available under license
1.85 pyparsing 2.4.2
   1.85.1 Available under license
1.86 parse-asn1 5.1.1
   1.86.1 Available under license
1.87 cryptography 2.8
   1.87.1 Available under license
1.88 randomatic 1.1.7
   1.88.1 Available under license
1.89 pygments 2.2.0
   1.89.1 Available under license
1.90 vine 1.3.0
   1.90.1 Available under license
1.91 docker-proxy 55685ba49593e67fd5e1c8180539379b16736c25e
   1.91.1 Available under license
1.92 python-ldap 3.1.0
   1.92.1 Available under license
1.93 text-encoding-shim 1.0.4
   1.93.1 Available under license
1.94 anymatch 1.3.2
   1.94.1 Available under license
1.95 postcss-value-parser 3.3.0
   1.95.1 Available under license
1.96 pyacli 1.3.0
   1.96.1 Available under license
1.97 supports-color 2.0.0
   1.97.1 Available under license
1.98 netlink dbc72376c86301bb873c332830857e73c9f701e3
   1.98.1 Available under license
1.99 docker-containerd 1.2.12
   1.99.1 Available under license
1.100 browserify-rsa 4.0.1
   1.100.1 Available under license
1.101 babel-helper-define-map 6.26.0
1.102 pyasn1 0.4.7
   1.102.1 Available under license
1.103 os-homedir 1.0.2
   1.103.1 Available under license
1.104 miller-rabin 4.0.1
1.105 dhcp 4.4.1
   1.105.1 Available under license
1.106 webpack-jquery-ui 2.0.1
1.107 postcss 6.0.23
   1.107.1 Available under license
1.108 moment 2.19.1
   1.108.1 Available under license
1.109 fastclick 1.0.6
   1.109.1 Available under license
1.110 babel-runtime 6.26.0
1.111 bzip2 1.0.8
1.112 stunnel 5.56
   1.112.1 Available under license
1.113 ansi-regex 2.1.1
   1.113.1 Available under license
1.114 python-blessed 1.17.5
   1.114.1 Available under license
1.115 postcss-modules-values 1.3.0
   1.115.1 Available under license
1.116 inherits 2.0.3
   1.116.1 Available under license
1.117 is-primitive 2.0.0
   1.117.1 Available under license
1.118 babel-plugin-transform-es2015-parameters 6.24.1
1.119 is-number 3.0.0
   1.119.1 Available under license
1.120 home-or-tmp 2.0.0
1.120.1 Available under license
1.121 libglib 2.62.4
   1.121.1 Available under license
1.122 brace 1.8.5
   1.122.1 Available under license
1.123 source-map-support 0.4.18
   1.123.1 Available under license
1.124 ripemd160 2.0.2
   1.124.1 Available under license
1.125 source-list-map 2.0.1
   1.125.1 Available under license
1.126 micromatch 2.3.11
   1.126.1 Available under license
1.127 pyopenssl 19.1.0
   1.127.1 Available under license
1.128 browserify-cipher 1.0.1
   1.128.1 Available under license
1.129 pyopenssl 19.1.0
   1.129.1 Available under license
1.130 traitlets 4.3.2
   1.130.1 Available under license
1.131 jsonref 0.2
   1.131.1 Available under license
1.132 zlib 1.2.11
   1.132.1 Available under license
1.133 regjsgen 0.2.0
   1.133.1 Available under license
1.134 globals 9.18.0
   1.134.1 Available under license
1.135 cached-property 1.5.1
   1.135.1 Available under license
1.136 output-file-sync 1.1.2
   1.136.1 Available under license
1.137 util-deprecate 1.0.2
   1.137.1 Available under license
1.138 coreutils 8.31
   1.138.1 Available under license
1.139 babel-helper-call-delegate 6.24.1
1.140 backgrid-paginator 0.3.9
<table>
<thead>
<tr>
<th>1.140.1 Available under license</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.141 glibc 2.33</strong></td>
</tr>
<tr>
<td>1.141.1 Available under license</td>
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<tr>
<td><strong>1.142 strip-ansi 3.0.1</strong></td>
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<tr>
<td>1.142.1 Available under license</td>
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<tr>
<td><strong>1.143 pip 19.3.1</strong></td>
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<tr>
<td>1.143.1 Available under license</td>
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<tr>
<td><strong>1.144 xlwt 1.3.0</strong></td>
</tr>
<tr>
<td>1.144.1 Available under license</td>
</tr>
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<td><strong>1.145 os-tmpdir 1.0.2</strong></td>
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<td>1.145.1 Available under license</td>
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<tr>
<td><strong>1.146 pyyaml 5.3</strong></td>
</tr>
<tr>
<td>1.146.1 Available under license</td>
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<tr>
<td><strong>1.147 constantly 15.1.0</strong></td>
</tr>
<tr>
<td>1.147.1 Available under license</td>
</tr>
<tr>
<td><strong>1.148 python-cached-property 1.4.3</strong></td>
</tr>
<tr>
<td>1.148.1 Available under license</td>
</tr>
<tr>
<td><strong>1.149 libunistring 0.9.10</strong></td>
</tr>
<tr>
<td>1.149.1 Available under license</td>
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<tr>
<td><strong>1.150 babel-helper-hoist-variables 6.24.1</strong></td>
</tr>
<tr>
<td><strong>async-each 1.0.1</strong></td>
</tr>
<tr>
<td><strong>1.152 babel-plugin-transform-es2015-object-super 6.24.1</strong></td>
</tr>
<tr>
<td><strong>1.153 balanced-match 1.0.0</strong></td>
</tr>
<tr>
<td>1.153.1 Available under license</td>
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<tr>
<td><strong>1.154 libseccomp 2.4.1</strong></td>
</tr>
<tr>
<td>1.154.1 Available under license</td>
</tr>
<tr>
<td><strong>1.155 mpdecimal 2.4.2</strong></td>
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<tr>
<td>1.155.1 Available under license</td>
</tr>
<tr>
<td><strong>1.156 kombu 4.6.7</strong></td>
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<tr>
<td>1.156.1 Available under license</td>
</tr>
<tr>
<td><strong>1.157 gojsonreference e02fc20de94c78484cd5ffb007f8af96be030a45</strong></td>
</tr>
<tr>
<td>1.157.1 Available under license</td>
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<td><strong>1.158 asgiref 3.2.3</strong></td>
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<td>1.158.1 Available under license</td>
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<tr>
<td><strong>1.159 lodash 4.17.11</strong></td>
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<tr>
<td>1.159.1 Available under license</td>
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<tr>
<td><strong>1.160 is-number 2.1.0</strong></td>
</tr>
<tr>
<td>1.160.1 Available under license</td>
</tr>
<tr>
<td><strong>1.161 set-immediate-shim 1.0.1</strong></td>
</tr>
</tbody>
</table>
1.162 xlrd 1.1.0
   1.162.1 Available under license
1.163 ptyprocess 0.6.0
   1.163.1 Available under license
1.164 channels-redis 2.4.2
   1.164.1 Available under license
1.165 lvm2 2.02.185
   1.165.1 Available under license
1.166 babylon 6.18.0
   1.166.1 Available under license
1.167 babel-plugin-transform-es2015-sticky-regex 6.24.1
   1.168 postgresql 12.2
       1.168.1 Available under license
1.169 automat 0.7.0
   1.169.1 Available under license
1.170 libxml 2.9.10
   1.170.1 Available under license
1.171 json-schema-traverse 0.4.1
   1.171.1 Available under license
1.172 i18next 7.2.3
   1.172.1 Available under license
1.173 backbone 1.2.3
   1.173.1 Available under license
1.174 docker-engine 19.03.5
   1.174.1 Available under license
1.175 libatomic-ops 7.6.10
   1.175.1 Available under license
1.176 backcall 0.1.0
1.177 responses 0.10.5
   1.177.1 Available under license
1.178 evp_bytestokey 1.0.3
   1.178.1 Available under license
1.179 backgrid 0.3.8
   1.179.1 Available under license
1.180 gojsonschema f06f290571ce81ab347174c6f7ad2e1865af41a7
   1.180.1 Available under license
1.181 supports-color 5.3.0
   1.181.1 Available under license
1.182 postcss-modules-scope 1.1.0
1.182.1 Available under license
1.183 lxml 4.4.1
  1.183.1 Available under license
1.184 trim-right 1.0.1
  1.184.1 Available under license
1.185 docker-pyccreds 0.4.0
  1.185.1 Available under license
1.186 parso 0.5.2
  1.186.1 Available under license
1.187 strict-rfc3339 0.7
  1.187.1 Available under license
1.188 glob-base 0.3.0
  1.188.1 Available under license
1.189 for-own 0.1.5
  1.189.1 Available under license
1.190 backgrid-filter 0.3.7
  1.190.1 Available under license
1.191 pytz 2018.5
  1.191.1 Available under license
1.192 pexpect 4.6.0
  1.192.1 Available under license
1.193 service-identity 18.1.0
  1.193.1 Available under license
1.194 backbone-paginator 2.0.6
  1.194.1 Available under license
1.195 jsesc 1.3.0
  1.195.1 Available under license
1.196 readable-stream 2.3.6
  1.196.1 Available under license
1.197 billiard 3.6.1.0
  1.197.1 Available under license
1.198 babel-plugin-transform-es2015-for-of 6.23.0
1.199 babel-plugin-transform-es2015-modules-amd 6.24.1
1.200 requests-ntlm 1.1.0
  1.200.1 Available under license
1.201 unicodecsv 0.14.1
  1.201.1 Available under license
1.202 babel-plugin-transform-es2015-literals 6.22.0
1.203 rfc3987 1.3.7
1.203.1 Available under license
1.204 babel-helper-replace-supers 6.24.1
1.205 zope-interface 4.6.0
   1.205.1 Available under license
1.206 fs-readdir-recursive 1.1.0
   1.206.1 Available under license
1.207 idna 2.8
   1.207.1 Available under license
1.208 django-redis 4.11.0
   1.208.1 Available under license
1.209 hash.js 1.1.5
   1.209.1 Available under license
1.210 backbone.marionette 3.4.4
   1.210.1 Available under license
1.211 is-binary-path 1.0.1
   1.211.1 Available under license
1.212 netns 2c954e4f6e2edd1a1c84e664e3d54662fb6991
   1.212.1 Available under license
1.213 open-ldap 2.4.48
1.214 brorand 1.1.0
   1.214.1 Available under license
1.215 pyasn1-modules 0.2.2
   1.215.1 Available under license
1.216 punycode 1.4.1
   1.216.1 Available under license
1.217 wsaccel 0.6.2
1.218 browserify-aes 1.2.0
   1.218.1 Available under license
1.219 runc 1.0.0-rc10
   1.219.1 Available under license
1.220 expand-brackets 0.1.5
   1.220.1 Available under license
1.221 to-fast-properties 1.0.3
   1.221.1 Available under license
1.222 docker-cli 19.03.5
   1.222.1 Available under license
1.223 libevent 2.1.11
   1.223.1 Available under license
1.224 array-unique 0.2.1
1.246 babel-helper-function-name 6.24.1
1.247 backbone-computedfields 0.0.12
    1.247.1 Available under license
1.248 repeat-string 1.6.1
    1.248.1 Available under license
1.249 ncurses 6.1-20191019
    1.249.1 Available under license
1.250 diffie-hellman 5.0.3
    1.250.1 Available under license
1.251 regenerator-runtime 0.10.5
    1.251.1 Available under license
1.252 sudo 1.8.31
    1.252.1 Available under license
1.253 babel-plugin-transform-es2015-modules-systemjs 6.24.1
1.254 chalk 1.1.3
    1.254.1 Available under license
1.255 channels 2.3.1
    1.255.1 Available under license
1.256 sqlite 3.30.1
1.257 babel-plugin-transform-es2015-function-name 6.24.1
1.258 packaging 19.1
    1.258.1 Available under license
1.259 babel-template 6.26.0
1.260 msgpack 0.6.2
    1.260.1 Available under license
1.261 binary-extensions 1.11.0
    1.261.1 Available under license
1.262 zeep 2.5.0
    1.262.1 Available under license
1.263 punycode 2.1.1
    1.263.1 Available under license
1.264 cffi 1.13.1
    1.264.1 Available under license
1.265 jquery 3.5.1
    1.265.1 Available under license
1.266 jquery-ui 1.12.1
    1.266.1 Available under license
1.267 jedi 0.12.1
    1.267.1 Available under license
1.268 kind-of 3.2.2
   1.268.1 Available under license
1.269 minimalistic-crypto-utils 1.0.1
1.270 zlib 1.2.11
   1.270.1 Available under license
1.271 escape-string-regexp 1.0.5
   1.271.1 Available under license
1.272 six 1.14.0
   1.272.1 Available under license
1.273 uri-js 4.2.2
   1.273.1 Available under license
1.274 open-vm-tools 10.3.5
   1.274.1 Available under license
1.275 linux-headers 4.19.107
   1.275.1 Available under license
1.276 postcss-modules-extract-imports 1.2.1
   1.276.1 Available under license
1.277 browserify-sign 4.0.4
   1.277.1 Available under license
1.278 normalize-path 2.1.1
   1.278.1 Available under license
1.279 babel-plugin-transform-es2015-duplicate-keys 6.24.1
1.280 chardet 3.0.4
   1.280.1 Available under license
1.281 icss-replace-symbols 1.1.0
   1.281.1 Available under license
1.282 cipher-base 1.0.4
   1.282.1 Available under license
1.283 attrs 19.3.0
   1.283.1 Available under license
1.284 glob-parent 2.0.0
   1.284.1 Available under license
1.285 libvmtools 10.3.5.7752
   1.285.1 Available under license
1.286 user-home 1.1.1
   1.286.1 Available under license
1.287 source-map 0.5.7
   1.287.1 Available under license
1.288 urllib3 1.24.2
1.288.1 Available under license

1.289 **taglib 0.12.1**
1.289.1 Available under license

1.290 **cssesc 0.1.0**
1.290.1 Available under license

1.291 **postcss-modules-local-by-default 1.2.0**
1.291.1 Available under license

1.292 **fill-range 2.2.3**
1.292.1 Available under license

1.293 **babel-cli 6.26.0**
1.294 **minimalistic-assert 1.0.1**
1.294.1 Available under license

1.295 **cookies 2.2.1**
1.295.1 Available under license

1.296 **babel-polyfill 6.26.0**
1.297 **babel-plugin-transform-es2015-spread 6.22.0**
1.298 **private 0.1.8**
1.298.1 Available under license

1.299 **xz 5.2.4**
1.299.1 Available under license

1.300 **busybox 1.31.1**
1.300.1 Available under license

1.301 **libestr 0.1.11**
1.301.1 Available under license

1.302 **babel-code-frame 6.26.0**
1.303 **source-map 0.6.1**
1.303.1 Available under license

1.304 **is-finite 1.0.2**
1.304.1 Available under license

1.305 **process-nextick-args 2.0.0**
1.305.1 Available under license

1.306 **arr-flatten 1.1.0**
1.306.1 Available under license

1.307 **preserve 0.2.0**
1.307.1 Available under license

1.308 **linux-kernel 5.4.23**
1.308.1 Available under license

1.309 **v8flags 2.1.1**
1.309.1 Available under license
1.310 expand-range 1.8.2
   1.310.1 Available under license
1.311 squashfs-tools 4.4
   1.311.1 Available under license
1.312 openpyxl 2.5.6
   1.312.1 Available under license
1.313 inflight 1.0.6
   1.313.1 Available under license
1.314 concat-map 0.0.1
   1.314.1 Available under license
1.315 babel-plugin-transform-es2015-modules-umd 6.24.1
1.316 moment-duration-format 2.2.2
   1.316.1 Available under license
1.317 hash-base 3.0.4
   1.317.1 Available under license
1.318 md5js 1.3.4
   1.318.1 Available under license
1.319 detect-indent 4.0.0
   1.319.1 Available under license
1.320 pbkdf2 3.0.16
   1.320.1 Available under license
1.321 libffi 3.3
   1.321.1 Available under license
1.322 bind 9.11.13
   1.322.1 Available under license
1.323 sha.js 2.4.11
   1.323.1 Available under license
1.324 ansi-styles 2.2.1
   1.324.1 Available under license
1.325 syslinux 6.03
   1.325.1 Available under license
1.326 extglob 0.3.2
   1.326.1 Available under license
1.327 remove-trailing-separator 1.1.0
   1.327.1 Available under license
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1.5 chokidar 1.7.0

1.6 pvutils 1.0.12

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1.8 babel-plugin-transform-es2015-block-scoped-functions 6.22.0

1.9 object.assign 4.1.1

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1.11 babel-plugin-transform-es2015-computed-properties 6.24.1

1.12 bridgeutils 1.6
1.12.1 Available under license:
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1.16 wrappy 1.0.2

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1.17 regjsparsers 0.1.5

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1.18 libfastjson 0.99.8

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1.19 js-cookie 2.1.4

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1.20 prompt-toolkit 3.0.2
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1.21 python-certifi 2019.9.11
1.21.1 Available under license:

This package contains a modified version of ca-bundle.crt:

```plaintext
c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $```

1.22 rsyslog 8.2006.0

1.22.1 Available under license:

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1.23 number-is-nan 1.0.1

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1.24 core-util-is 1.0.2

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1.25 redis 3.2.0

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1.26 babel-plugin-transform-es2015-modules-commonjs 6.26.0

1.27 safe-buffer 5.1.2

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1.28 graceful-fs 4.1.11
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1.29 babel-types 6.26.0

1.30 ldap-filters 2.2.2
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1.31 lunr 0.7.2

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1.32 ifupdown 0.8.16

1.32.1 Available under license :

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1.42 ntp 4.2.8p15

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    <kirkwood@striderfm.intel.com> port to Windows NT 3.5
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54] Michael Shields <shields@tembel.org> USNO clock driver
51. [55] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic
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59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.43 des.js 1.0.0

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1.44 underscore 1.8.3

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1.45 js-tokens 3.0.2

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1.46 color-convert 1.9.1

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1.47 async-timeout 3.0.0

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1.48 ipython-genutils 0.2.0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
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1.51 isobject 2.1.0

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1.52 loose-envify 1.3.1

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1.53 amqp 2.5.2

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1.54 is-equal-shallow 0.1.3

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1.55 django-auth-ldap 1.7.0

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1.56 certifi 2019.11.28

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.57 babel-plugin-transform-regenerator

6.26.0
1.58 is-posix-bracket 0.1.1

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1.59 util-linux 2.35.1

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1.60 packaging 16.8

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1.70 repeat-element 1.1.2
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1.71 has-ansi 2.0.0
1.71.1 Available under license :

# has-ansi [!Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)

> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)
## Install

```bash
$ npm install --save has-ansi
```

## Usage

```js
var hasAnsi = require('has-ansi');

hasAnsi('[4mcake\u001b[0m');
//=> true

hasAnsi('cake');
//=> false
```

## Related

- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

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1.72 parse-glob 3.0.4

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1.73 et-xmlfile 1.0.1

1.74 daphne 2.4.1

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1.75 nginx 1.17.7
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1.76 string_decoder 1.1.1
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1.77 babel-register 6.26.0

1.78 regexpu-core 2.0.0
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1.79 browerify-des 1.0.2

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1.81 safe-buffer 5.1.1

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1.82 libsodium 1.0.18
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1.83 css-selector-tokenizer 0.7.1
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1.84 ldap-filter 0.2.1

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1.85 pyparsing 2.4.2

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1.86 parse-asn1 5.1.1

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1.87 cryptography 2.8

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Protocol Buffers for Go with Gadgets

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1.95 postcss-value-parser 3.3.0

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1.97 supports-color 2.0.0

1.97.1 Available under license:

> Detect whether a terminal supports color

```js
var supportsColor = require('supports-color');

if (supportsColor) {
  console.log('Terminal supports color');
}
```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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1.100 browserify-rsa 4.0.1

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1.101 babel-helper-define-map 6.26.0

1.102 pyasn1 0.4.7

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ASN.1 library for Python

---------------------------------------------------------------
[!][PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)[https://pypi.org/project/pyasn1)
[!][Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)[https://pypi.org/project/pyasn1/)
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-------------
With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
// Open Source Used In Cisco Meeting Management 3.2  532
```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```bash

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1))
    )
  )
```python

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```python

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
```
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/README.md
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ASN.1 library for Python
------------------------

.. toctree::
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Abstract Syntax Notation One (ASN.1)
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.
The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453>_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
--------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

Getting help
-------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:

On the other end of the readability spectrum, here is a quick and sweet write up:


by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/docs/source/contents.rst

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* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/univ.py
* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/calling.py
* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/dateandtime.py
* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/string.py
* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/ber/decoder.py
* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/error.py
* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/ber/decoder.py
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* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/sizeof.py
* /opt/cola/flags/1101288617_1603190693.87/0/etingof-pyasn1-v0-4-7-0-g771aa24-tar-gz/etingof-pyasn1-771aa24/pyasn1/compat/struct.py
1.103 os-homedir 1.0.2

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1.104 miller-rabin 4.0.1

1.105 dhcp 4.4.1
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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (http://www.speed-soft.de).

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1.113 ansi-regex 2.1.1

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1.114 python-blessed 1.17.5

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1.115 postcss-modules-values 1.3.0

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1.116 inherits 2.0.3

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1.117 is-primitive 2.0.0

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1.118 babel-plugin-transform-es2015-parameters 6.24.1
1.119 is-number 3.0.0
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1.121 libglib 2.62.4

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1.124 ripemd160 2.0.2

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1.125 source-list-map 2.0.1

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1.130 traitlets 4.3.2

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1.132 zlib 1.2.11
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1.138 coreutils 8.31

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1.139 babel-helper-call-delegate 6.24.1
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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

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A. HISTORY OF THE SOFTWARE

contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.
Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.158 asgiref 3.2.3

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1.159 lodash 4.17.11

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1.164 channels-redis 2.4.2

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1.167 babel-plugin-transform-es2015-sticky-regex 6.24.1

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1.171 json-schema-traverse 0.4.1
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.183 lxml 4.4.1

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1.188 glob-base 0.3.0

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1.189 for-own 0.1.5

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1.194 backbone-paginator 2.0.6

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1.196 readable-stream 2.3.6
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1.198 babel-plugin-transform-es2015-for-of
6.23.0

1.199 babel-plugin-transform-es2015-
modules-amd 6.24.1

1.200 requests-ntlm 1.1.0
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1.202 babel-plugin-transform-es2015-literals

6.22.0
1.203 rfc3987 1.3.7

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1.204 babel-helper-replace-supers 6.24.1

1.205 zope-interface 4.6.0
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1.206 fs-readdir-recursive 1.1.0

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1.207 idna 2.8

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1.209 hash.js 1.1.5
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1.210 backbone.marionette 3.4.4
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1.211 is-binary-path 1.0.1

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1.212 netns

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1.214 brorand 1.1.0

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1.217 wsaccel 0.6.2

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1.219 runc 1.0.0-rc10

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1.220 expand-brackets 0.1.5

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1.221 to-fast-properties 1.0.3

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1.222 docker-cli 19.03.5

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Protocol Buffers for Go with Gadgets

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package engine

import (
  "bytes"
  "encoding/json"
  "strings"
  "testing"
  "time"

  "github.com/docker/cli/cli/command/formatter"
  "github.com/docker/cli/internal/licenseutils"
  "github.com/docker/licensing/model"
  "gотest.tools/assert"
is "gotest.tools/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context formatter.Context
expected string
}{{
// Errors
{
formatter.Context{Format: "{{InvalidFunction}}"},
// Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
formatter.Context{Format: "{{nil}}"},
// Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
NUM         OWNER        PRODUCT ID       EXPIRES                       PRICING COMPONENTS
1           owner1      productid1     2020-01-01 10:00:00 +0000 UTC compstring
2           owner2      productid2     2020-01-01 10:00:00 +0000 UTC compstring
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
1: License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2: License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
OWNER
owner1
owner2
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
OWNER
owner1
owner2
`,
},
// Raw Format
```
for _, subscription := range cases {
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 10,
          },
        },
      },
    },
  },
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num:   1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID:        "id1",
                Name:      "name1",
                ProductID: "productid1",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 10,
                    }
                },
                ComponentsString: "compstring",
            }
        },
        {
            Num:   2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:        "id2",
                Name:      "name2",
                ProductID: "productid2",
                Expires:   &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name:  "nodes",
                        Value: 20,
                    }
                },
                ComponentsString: "compstring",
            }
        }
    }
    out := &bytes.Buffer{}
    testcase.context.Output = out
    err := SubscriptionsWrite(testcase.context, subscriptions)
    if err != nil {
        assert.Error(t, err, testcase.expected)
    } else {
        assert.Check(t, is.Equal(testcase.expected, out.String()))
    }
}

func TestSubscriptionContext(t *testing.T) {
    // Test subscription context
}

// model interface

ComponentsString: "compstring",
}

{
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
ID: "id2",
Name: "name2",
ProductID: "productid2",
Expires: &expiration,
PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
Name: "nodes",
Value: 20,
},
},
ComponentsString: "compstring",
}

expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01."
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
}
"DockerID":
"",
"Eusa":
nil,
"ID":
"id2",
"Start":
nil,
"Name":
"name2",
"Num":
float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)

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package licensing

import (
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"

    "github.com/docker/libtrust"
    "github.com/docker/licensing/lib/errors"
    "github.com/docker/licensing/lib/go-clientlib"
    "github.com/docker/licensing/model"
)

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *Client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]
    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
    "key_id": keyID,
}, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.
// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
tokenBytes, err := base64.URLEncoding.DecodeString(token)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}
generatedToken, err := generateToken(message, privateKey)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}
generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}
if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}
return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
key, err := base64.URLEncoding.DecodeString(privateKey)
if err != nil {
    return "", errors.Wrap(err, errors.Fields{"msg": message})
}
h := hmac.New(sha256.New, key)
h.Write([]byte(message))
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed
// json blob.

type CheckResponse struct {
    Expiration    time.Time `json:"expiration"
    Token         string    `json:"token"
    MaxEngines    int       `json:"maxEngines"
    ScanningEnabled bool     `json:"scanningEnabled"
    Type          string    `json:"licenseType"
    Tier          string    `json:"tier"
}

// IssuedLicense represents an issued license

type IssuedLicense struct {
    KeyID         string `json:"key_id"
    PrivateKey    string `json:"private_key"
    Authorization string `json:"authorization"
func (l *IssuedLicense) Valid() (bool, string) {
if l.KeyID == "" {
    return false, "empty key_id"
}

if l.PrivateKey == "" {
    return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""
}
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```go
package engine

import (
    "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (
    defaultSubscriptionsTableFormat = "table
        {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
```
pricingComponentsHeader = "PRICING COMPONENTS"

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsDefaultTableFormat
    case formatter.RawFormatKey:
        if quiet {
            return `license: {{.ID}}`
        }
        return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
    return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{
        Header:
            "Num":               numHeader,
            "Owner":             ownerHeader,
            "Name":              licenseNameHeader,
            "ID":                idHeader,
            "DockerID":          dockerIDHeader,
            "ProductID":         productIDHeader,
            "ProductRatePlan":   productRatePlanHeader,
            "ProductRatePlanID": productRatePlanIDHeader,
            "Start":             startHeader,
            "Expires":           expiresHeader,
            "State":             stateHeader,
            "Eusa":              eusaHeader,
            "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    lic licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.lic.Num
}

func (c *licenseContext) Owner() string {
    return c.lic.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.lic.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.lic.String()
}

func (c *licenseContext) Name() string {
    return c.lic.Name
}

func (c *licenseContext) ID() string {
    return c.lic.ID
}

func (c *licenseContext) DockerID() string {
    return c.lic.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.lic.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.lic.ProductRatePlan
}
func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter
    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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1.241 babel-traverse 6.26.0

1.242 pytzdata 2019.1

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1.244 fsevents 1.1.3

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1.246 babel-helper-function-name 6.24.1

1.247 backbone-computedfields 0.0.12

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1.248 repeat-string 1.6.1

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1.249 ncurses 6.1-20191019

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Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
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MacKenzie, David J.
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Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
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Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
The following people have worked to translate sudo into
other languages as part of the Translation Project, see
https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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Hufthammer, Karl Ove
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1.253 babel-plugin-transform-es2015-modules-systemjs 6.24.1

1.254 chalk 1.1.3

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1.255 channels 2.3.1

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1.256 sqlite 3.30.1

1.257 babel-plugin-transform-es2015-function-name 6.24.1

1.258 packaging 19.1

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1.259 babel-template 6.26.0

1.260 msgpack 0.6.2

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1.269 minimalistic-crypto-utils 1.0.1

1.270 zlib 1.2.11

1.270.1 Available under license :
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.271 escape-string-regexp 1.0.5
1.271.1 Available under license:

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1.272 six 1.14.0

1.272.1 Available under license:

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1.273 uri-js 4.2.2

1.273.1 Available under license:

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/*
 * QUnit - A JavaScript Unit Testing Framework
 * http://docs.jquery.com/QUnit
 * Copyright (c) 2009 John Resig, Jörn Zaefferer
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 */
/**
 * jsDump
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-prety-dump-of-any-javascript.html}
 */

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js

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# URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc).

It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

## API

### Parsing

```javascript
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
```
```javascript
//
//  scheme : "uri",
//  userinfo : "user:pass",
//  host : "example.com",
//  port : 123,
//  path : "/one/two.three",
//  query : "q1=a1&q2=a2",
//  fragment : "body"
//}

### Serializing

URI.serialize({scheme : "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"

### Resolving

URI.resolve("uri://a/b/c/d?q", "../../g") === "uri://a/g"

### Normalizing

URI.normalize("HTTP://ABC.com:80/%7Esmitth/home.html") === "http://abc.com/~smitth/home.html"

### Comparison

URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a//b//b/%63/%7bf0o%7d") === true

### IP Support

//IPv4 normalization
URI.normalize("//192.068.001.000") === "/192.68.1.0"

//IPv6 normalization
URI.normalize("//[2001:0:0DB8::0:0001]") === "/[2001:0:db8::1]"

//IPv6 zone identifier support
URI.parse("//[2001:db8::7%en1]");
//returns:
//{
//  host : "2001:db8::7%en1"
//}

### IRI Support

//convert IRI to URI
URI.serialize(URI.parse("http://exampl.org/ro")) === "http://xn--exampl-gva.org/ro%C3%A9"

//convert URI to IRI
URI.serialize(URI.parse("http://xn--exampl-gva.org/ro%C3%A9"), {iri:true}) === "http://exampl.org/ro"
```
### Options

All of the above functions can accept an additional options argument that is an object that can contain one or more of the following properties:

* `scheme` (string)

Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

* `reference` (string)

If set to `"suffix"`, it indicates that the URI is in the suffix format, and the validator will use the option's `scheme` property to determine the URI's scheme.

* `tolerant` (boolean, false)

If set to `true`, the parser will relax URI resolving rules.

* `absolutePath` (boolean, false)

If set to `true`, the serializer will not resolve a relative `path` component.

* `iri` (boolean, false)

If set to `true`, the serializer will unescape non-ASCII characters as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `unicodeSupport` (boolean, false)

If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](http://www.ietf.org/rfc/rfc3987.txt).

* `domainHost` (boolean, false)

If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](http://www.ietf.org/rfc/rfc5891.txt).

## Scheme Extendable

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

* `http` ![RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)]
* `https` ![RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)]
* `mailto` ![RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)]
* `urn` ![RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)]
* `urn:uuid` ![RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)]
### HTTP Support

`URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true`

### Mailto Support

`URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");`

//returns:
//{
//    scheme : "mailto",
//    to : ["alpha@example.com", "bravo@example.com"],
//    subject : "SUBSCRIBE",
//    body : "Sign me up!"
//}

`URI.serialize({
    scheme : "mailto",
    to : ["alpha@example.com"],
    subject : "REMOVE",
    body : "Please remove me",
    headers : {
        cc : "charlie@example.com"
    }
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"

### URN Support

`URI.parse("urn:example:foo");`

//returns:
//{
//    scheme : "urn",
//    nid : "example",
//    nss : "foo",
//}

### URN UUID Support

`URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");`

//returns:
//{
//    scheme : "urn",
//    nid : "example",
//    uuid : "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}

## Usage
To load in a browser, use the following tag:

```html
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```bash
npm install uri-js
```

Then, in your code, load it using:

```javascript
const URI = require("uri-js");
```

If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```javascript
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```javascript
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar, pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

### Breaking changes

#### Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

#### Breaking changes from 2.x

URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

#### Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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* /opt/cola/permits/110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-
  4f6f600/README.md

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* /opt/cola/permits/110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.min.js
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"version":3,"sources":
["merge","sets","Array","_len","_key","arguments","length","slice","x","joi
n","subexp","str","typeOF","o","undefined","Object","prototype","toString","call","split","pop","shift","toString","toUpperCase","toArray","obj","setInterval","assign","target","source","key","buildExps","isIRI","HEXDIG$$","PCT_ENCODED$","SUB_DELIMSS$","RESERVED$$","UCSCHAR$$","DEC_OCTET_RELAXED$","H16$","LS32$","IPV4ADDRESS$$","IPV6ADDRESS1$","IPV6ADDRESS2$","IPV6ADDRESS3$","IPV6ADDRESS4$","IPV6ADDRESS5$","IPV6ADDRESS6$","IPV6ADDRESS7$","IPV6ADDRESS8$","ZONE ID$","UNRESERVED$$","RegExp","PRIVATE$$","IPV6ADDRESS$$","error","type","RangeError","errors","map","array","fn","result","mapDomain","string","parts","replace","regexSeparators","ucs2decode","output","counter","value","charCodeAt","extra","push","pctEncChar","chr","c","pctDecChars","newStr","i","iil","parseInt","substr","String","fromCharCode","c2","c3","_normalizeComponentEncoding","components","protocol","decodeUnreserved","decodeStr","match","UNRESERVED","scheme","PCT_ENCODED","NOT SCHEME","userinfo","NOT_USERINFO","host","NOT_HOST","path","NOT_PATH","NOT_PATH_NOSCHHEME","query","NOT_QUERY","fragment","NOT_FRAGMENT","_stripLeadingZeros","_normalizeIPv4","matches","IPv4ADDRESS$","address$","matches$","_normalizeIPv6","IPv6ADDRESS$","_matches$","zone$","reverse","last$","_address$toLowerCase$","first$","firstFields$","lastFields$","isLastFieldIPv4Address$","test$","fieldCount$","lastFieldsStart$","fields$","allZeroFields$","reduce$","acc$","field$","index$","lastLongest$","longestZeroFields$","sort$","a$","b$","newHost$","newFirst$","newLast$","parse$","uriString$","options$","iri$","IRI_PROTOCOL$","URI_PROTOCOL$","reference$","URI_PARSE$","NO_MATCH_IS_UNDEFINED$","port$","isNaN$","indexOf$","schemeHandler$","SCHEMES$","unicodeSupport$","domainHost$","punycode$","toASCII$","e$","_recomposeAuthority","uriTokens$","_$_","$1$","$2$","removeDotSegments$","input$","RDS1$","RDS2$","RDS3$","im$","RDS5$","Error$","s$","serialize$","toUnicode$","authority$","charAt$","absolutePath$","resolveComponents$","base$","relative$","skipNormalization$","tolerant$","lastIndexOf$","resolve$","baseURI$","relativeURI$","schemelessOptions$","normalize$","uri$","equal$","uriA$","uriB$","escapeComponent$","ESCAPE$","unescapeComponent$","maxInt$","regexpNonASCII$","floor$","Math$","stringFromCharCode$","ucs2encode$","fromCodePoint$","apply$","to
function merge(...sets:Array<string>):string {
    if (sets.length > 1) {
        sets[0] = sets[0].slice(0, -1);
        const xl = sets.length - 1;
        for (let x = 1; x < xl; ++x) {
            sets[x] = sets[x].slice(1, -1);
        }
        sets[xl] = sets[xl].slice(1);
        return sets.join('');
    } else {
        return sets[0];
    }
}

function subexp(str:string):string {
    return "(?:" + str + ")";
}

function typeOf(o:any):string {
    return o === undefined ? "undefined" : (o === null ? "null" : Object.prototype.toString.call(o).split(" ").pop().split("]").shift().toLowerCase());
}

function toUpperCase(str:string):string {
    return str.toUpperCase();
}

function toArray(obj:any):Array<any>
null

export function assign(target: object, source: any): any {
    const obj = target as any;
    if (source) {
        for (const key in source) {
            obj[key] = source[key];
        }
    }
    return obj;
}

import { URIRegExps } from './uri';
import { merge, subexp } from './util';

export function buildExps(isIRI:boolean): URIRegExps {
    const ALPHA$$ = '[A-Za-z]',
        CR$ = '[\x0D]',
        DIGIT$$ = '[0-9]',
        DQUOTE$$ = '\x22',
        HEXDIG$$ = merge(DIGIT$$, '[A-Fa-f]'),  // case-insensitive
        LF$$ = '\x0A',
        SCHEME$ = subexp(ALPHA$$ + merge(ALPHA$$, DIGIT$$, '[+.-_]') + '*'),
        USERINFO$ = subexp(subexp(PCT_ENCODED$ + '|' + merge(UNRESERVED$$, SUB_DELIMS$$, '[:]')) + '*'),
        DEC_OCTET$ = subexp(subexp("25[0-5]") + '|' + subexp("2[0-4]" + DIGIT$$) + '|' + subexp("1" + DIGIT$$ + DIGIT$$) + '|' + subexp("0?[1-9]" + DIGIT$$) + '|' + DIGIT$$),
        DEC_OCTET_RELAXED$ = subexp(subexp("25[0-5]") + '|' + subexp("2[0-4]" + DIGIT$$) + '|' + subexp("1" + DIGIT$$ + DIGIT$$) + '|' + subexp("0?[1-9]" + DIGIT$$) + '|' + '0?[0-7]' + DIGIT$$),
        IPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + '|' + DEC_OCTET_RELAXED$ + '|' + DEC_OCTET_RELAXED$ + '|' + DEC_OCTET_RELAXED$),
        IPv6Address1$ = subexp(subexp(H16$ + ':' + H16$) + '{6}' + LS32$),
        IPv6Address2$ = subexp('::' + subexp(H16$ + ':' + H16$) + '{5}' + LS32$),
        IPv6Address3$ = subexp(subexp(H16$ + ':' + H16$) + '{4}' + LS32$),
        IPv6Address4$ = subexp(subexp(H16$ + ':' + H16$) + '{3}' + LS32$),
        IPv6Address5$ = subexp(subexp(H16$ + ':' + H16$) + '{2}' + LS32$),
        IPv6Address6$ = subexp(subexp(H16$ + ':' + H16$) + '{1}' + LS32$),
        IPv6Address7$ = subexp(subexp(H16$ + ':' + H16$) + '{0}' + LS32$),
        IPv6Address8$ = subexp(subexp(H16$ + ':' + H16$) + '{0}' + LS32$),
        IPv6Address9$ = subexp(subexp(H16$ + ':' + H16$) + '{0}' + LS32$),
        IPv6Address$ = subexp([IPv6Address1$, IPv6Address2$, IPv6Address3$, IPv6Address4$, IPv6Address5$,
        IPv6Address6$, IPv6Address7$, IPv6Address8$, IPv6Address9$.join('|')]),
        ZONEID$ = subexp(subexp(UNRESERVED$$ + '|' + PCT_ENCODED$) + '+'),
        IPV6ADDRZ$ = subexp(IPV6ADDRESS$ + '%25' + ZONEID$),
        IPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp('%25|%(?!(?!' + HEXDIG$$ + '%\2)')) + ZONEID$),
        IPVFUTURE$ = subexp('[vV]' + HEXDIG$$ + '+\.' + merge(UNRESERVED$$, SUB_DELIMS$$, '[.]') + '+'),
        IP_LITERAL$ = subexp('\[\' + subexp(IPV6ADDRZ_RELAXED$ + '|' + IPV6ADDRESS$ + '|' + IPVFUTURE$) + '\]'),
        REG_NAME$ = subexp(subexp(PCT_ENCODED$ + '|' + merge(UNRESERVED$$, SUB_DELIMS$$)) + '*\)\)')}
32-bit float value */
const maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1

/**
 * Bootstring parameters
 */
const base = 36;
const Min = 1;
const tMax = 26;
const skew = 38;
const damp = 700;
const initialBias = 72;
const initialIn = 128;

/**
 * Regular expressions
 */
const regexPunycode = /xn--/;
const regexNonASCII = /[\x00-\x7F]/;
const regexSeparators = /[\x2E\u3002\uFF0E\uFF61]/g;
const RFC 3490 separators

/**
 * Error messages
 */
const errors = {
	'overflow': 'Overflow: input needs wider integers to process',
	'not-basic': 'Illegal input >= 0x80 (not a basic code point)',
	'invalid-input': 'Invalid input'
};

/**
 * Convenience shortcuts
 */
const baseMinusTMin = base -

/*-----------------------------
---------------------------------------------*/

/**
 * A generic error utility function.
 * @private
 * @param {String} type The error type.
 * @returns {Error} Throws a `RangeError` with the applicable error message.
 */
function error(type) {
	throw new RangeError(errors[type]);
}

/**
 * A generic `Array#map` utility function.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} callback The function that gets called for every
 * character.
 * @returns {Array} A new array of values returned by the callback function.
 */
function map(array, fn) {
	const result = [];
	let length = array.length;
	while (length--){
		result[length] = fn(array[length]);
	}
	return result;
}

/**
 * A simple `Array#map`-like wrapper to work with domain name strings or email
 * addresses.
 * @private
 * @param {String} domain The domain name or email address.
 * @param {Function} callback The function that gets called for every
 * character.
 * @returns {Array} A new string of characters returned by the callback function.
 */
function mapDomain(string, fn) {
	const parts = string.split('@');
	let result = '';
	if (parts.length > 1) {
		result = parts[0] + '@';
	}
	string = string.replace(regexSeparators, '\x2E');
	const labels = string.split('.');
	const encoded =

/**
 * Creates an array containing the numeric code
 * points of each Unicode
 * character in the string. While JavaScript uses UCS-2 internally,
 * this function will
 * convert a pair of surrogate halves (each of which
 * is UCS-2 exposes as separate characters) into a single code
 */
const ucs2decode = array => String.fromCharCode(...array);

/**
 * Converts a basic code point into a
 * digit/integer.
 * @see `digitToBasic()`
 * @private
 * @param {Number} codePoint The basic numeric code
 * point value.
 * @returns {Number} The numeric value of a basic code point (for use in
 * representing integers)
 */
const basicToDigit =

/**
 * Creates a string based on an array of numeric code
 * points.
 * @see `punycode.ucs2.decode`
 * @param {Array} Array } codePoints The array of numeric code points.
 * @returns {String} The new Unicode string (UCS-2).
 */
const ucs2encode = array => String.fromCharCode(...array);

/**
 * The numeric value of a basic code point (for use in
 * representing integers) in the range '0' to 'base - 1',
 * or 'base' if
 * the code point does not represent a value.
 */
const basicToDigit =

/**
 * The basic numeric code
 * point value.
 */
const ucs2encode = array => String.fromCharCode(...array);

/**
 * Converts a basic code point into a
digit/integer.
 */
const digitToBasic =

Open Source Used In Cisco Meeting Management 3.2 1327
is undefined

if 'flag' is non-zero and 'digit' has no uppercase form.

```javascript
const digitToBasic = function(digit, flag) {
    // 0..25 map to ASCII a..z or A..Z
    // 26..35 map to ASCII 0..9
    return digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);
};
```

```javascript
const adapt = function(delta, numPoints, firstTime) {
    let k = 0;
    delta = firstTime ? floor(delta / damp) : delta >> 1;
    delta += floor(delta / numPoints);
    for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
        delta = floor(delta / baseMinusTMin);
        k += base;
    }
    return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
};
```

```javascript
const decode = function(input) {
    const output = [];
    const inputLength = input.length;
    let i = 0;
    let n = initialN;
    let bias = initialBias;

    // Handle the basic code points: let 'basic' be the number of input code/
    // points before the last delimiter, or '0' if there is none, then
    copy
    const basic = input.lastIndexOf(delimiter);
    if (basic < 0) {
        basic = 0;
    }
    for (let j = 0; j < basic; ++j) {
        if (input.charCodeAt(j) >= 0x80) {
            throw new Error('not-basic');
        }
        output.push(input.charCodeAt(j));
    }

    // Main decoding loop:
    for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
        let oldi = i;
        let w = 1;
        let k = base;
        for (/* no condition */; k += base)
            if (index >= inputLength) {
                throw new Error('invalid-input');
            }
        const digit = basicToDigit(input.charCodeAt(index++));
        if (digit >= base || digit > floor((maxInt - i) / w)) {
            throw new Error('overflow');
        }
        i += digit * w;
        const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
        if (digit < t) {
            break;
        }
        const baseMinusT = base - t;
        if (w > floor(maxInt / baseMinusT)) {
            throw new Error('overflow');
        }
        w *= baseMinusT;
    }

    const out = output.length + 1;
    bias = adapt(i - oldi, out, oldi == 0);
    i %= out;
    output.splice(i++, 0, n);
}
```

```javascript
const encode = function(input) {
    const output = [];
    const input = ucs2decode(input);
    const inputLength = input.length;
    let n = initialN;
    let bias = initialBias;

    // Handle the basic code points.
    for (const currentValue of input) {
        if (currentValue < 0x80) {
            output.push(stringFromCharCode(currentValue));
        }
    }
    const basicLength = output.length;

    // Main encoding loop:
    while (handledCPCount < inputLength) {
        // All non-basic code points < n have been handled already.
        let m = maxInt;
        for (const currentValue of input) {
            if (currentValue >= n && currentValue < m) {
                m = currentValue;
            }
        }
        if (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {
            handledCPCountPlusOne = handledCPCount + 1;
            m = n + delta;
        }
        const k = m - n;
        const t = k <= bias ? tMin : (k >= bias + TMax ? TMax : k - bias);
        output.push(stringFromCharCode(m));
    }
    return String.fromCharCode(...output);
}
```

`adapt` and `decode` areadaptation functions used in the process of converting between Punycode and ASCII. They handling of basic and non-basic code points, and ensure that the output is correctly encoded or decoded. `adapt` is used to adjust the output value based on the number of points handled and the current delta, while `decode` is used to convert a binary string to a Unicode string, and `encode` is used to convert a Unicode string to a Punycode string. These functions are essential for the proper functioning of the Punycode library. The code includes error handling for invalid input or overflow conditions. The implementation is designed to handle a range of cases efficiently, ensuring that the conversion process is accurate and reliable. The library supports a variety of use cases, including domain name normalization in web applications and UDDI services.
const qMinusT = q - t; 
const baseMinusT = base - t;

output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0))); 

q = floor(qMinusT / baseMinusT);

output.push(stringFromCharCode(digitToBasic(q, 0)));

bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);

delta = 0;

++handledCPCount;

++delta;

++n;

}

return output.join('');
};

/**
 *
 * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n * converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n * string.\n */
const toUnicode = function(input) {
  return mapDomain(input, function(string) {
    return regexPunycode.test(string)
      ? decode(string.slice(4).toLowerCase())
      : string;
  });
};

/**
 *
 * Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII\n * parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already\n * in ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email address.\n */
const toASCII = function(input) {
  return mapDomain(input, function(string) {
    return regexNonASCII.test(string)
      ? 'xn--' + encode(string)
      : string;
  });
};

/*-----------------------------------
---------------------------------------*/

/** Define the public API */
const punycode = {
  /**
   * A string\n   * representing the current Punycode.js version number.\n   * @memberOf punycode\n   * @type String\n   */
  'version': '2.1.0',
  /**
   * An object of methods to convert from JavaScript's internal character\n   * representation (UCS-2) to Unicode code points, and back.\n   * @type {Object}
   */
  'ucs2': {
    'decode': ucs2decode,
    'encode': ucs2encode
  },
  'decode': decode,
  'encode': encode,
  'toASCII': toASCII,
  'toUnicode': toUnicode
};

export default punycode;

/**
 * URI.js
 *
 * @fileoverview An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author <a href="mailto:gary.court@gmail.com">Gary Court</a>
 * @see http://github.com/garycourt/uri-js
 */

import URI_PROTOCOL from './regexps-uri';
import IRI_PROTOCOL from './regexps-iri';
import punycode from 'punycode';
import { toUpperCase, typeOf, assign } from './util';

export interface URIComponents {
  scheme?: string;
  userInfo?: string;
  host?: string;
  port?: number|string;
  path?: string;
  query?: string;
  fragment?: string;
  reference?: string;
  error?: string;
  //ump: string;
  host: string;
  path: string;
  query: string;
  fragment: string;
  reference: string;
  error: string;
};

export interface URIOptions {
  error?: string;
  //ump: string;
  host: string;
  path: string;
  query: string;
  fragment: string;
  reference: string;
  error: string;
  //ump: string;
  host: string;
  path: string;
  query: string;
  fragment: string;
  reference: string;
  error: string;
};
interface URISchemeHandler<Components extends URIComponents, Options extends URIOptions, ParentComponents extends URIComponents> {
    scheme: string;
    parse(components: ParentComponents, options: Options): Components;
    serialize(components: Components, options: Options): ParentComponents;
    unicodeSupport?: boolean;
    domainHost?: boolean;
    absolutePath?: boolean;
}

export interface URIRegExps {
    NOT_SCHEME: RegExp,
    NOT_USERINFO: RegExp,
    NOT_HOST: RegExp,
    NOT_PATH: RegExp,
    NOT_PATH_NOSCHEME: RegExp,
    NOT_QUERY: RegExp,
    NOT_FRAGMENT: RegExp,
    ESCAPE: RegExp,
    UNRESERVED: RegExp,
    OTHER_CHARS: RegExp,
    IPV4ADDRESS: RegExp,
    IPV6ADDRESS: RegExp,
}

export const SCHEMES: {[scheme: string]: URISchemeHandler} = {};

export function pctEncChar(chr: string): string {
    const c = chr.charCodeAt(0);
    let e: string;
    if (c < 16)
        e = `%0" + c.toString(16).toUpperCase();
    else if (c < 2048) 
        e = `%" + ((c >> 6) | 128).toString(16).toUpperCase();
    else 
        e = `%" + ((c >> 12) | 224).toString(16).toUpperCase();
    return e;
}

export function pctDecChars(str: string): string {
    let newStr = "";
    let i = 0;
    const il = str.length;
    while (i < il) {
        const c = parseInt(str.substr(i + 1, 2), 16);
        if (c < 128) {
            newStr += String.fromCharCode(c);
            i += 3;
        } else if (c >= 194 && c < 224) {
            const c2 = parseInt(str.substr(i + 4, 2), 16);
            newStr += String.fromCharCode(c | 64 | (c2 & 31));
            i += 6;
        } else if (c >= 224) {
            const c2 = parseInt(str.substr(i + 4, 2), 16);
            const c3 = parseInt(str.substr(i + 7, 2), 16);
            newStr += String.fromCharCode(c | 192 | (c2 & 63) | 128 | (c3 & 63));
            i += 9;
        } else {
            newStr += str.substr(i, 3);
            i += 3;
        }
    }
    return newStr;
}

const normalizeComponentEncoding = (components: URIComponents, protocol: URIRegExps) => {
    if (components.scheme) components.scheme = components.scheme.toLowerCase().replace(protocol.NOT_SCHEME, "");
    if (components.userinfo !== undefined) components.userinfo = components.userinfo.replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
    if (components.host !== undefined) components.host = components.host.toLowerCase().replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
    if (components.path !== undefined) components.path = components.path.replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_PATH, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
    if (components.query !== undefined) components.query = components.query.replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
    if (components.fragment !== undefined) components.fragment = components.fragment.replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);

    return components;
};

const normalizeIPv4 = (host: string, protocol: URIRegExps) => {
    const matches = host.match(protocol.IPV4ADDRESS) || [
    ];
    if (matches[1])
        return matches[1].split(".").map(_stripLeadingZeros).join(".");
    else
        return host;
}

const normalizeIPv6 = (host: string, protocol: URIRegExps) => {
    const matches = host.match(protocol.IPV6ADDRESS) || [];
    return matches[1].replace(/%([a-f0-9]{2})/, (match, group) => pctlEncChar(group));
}
firstField = address.toLowerCase().split('::').reverse();

const firstFields = firstFields ? firstFields : [""];

const isLastFieldIPv4Address = protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]) || lastFields.lastFieldCount === isLastFieldIPv4Address ? 7 : 8;

const lastFieldsStart = lastFields.length - fieldCount;

for (let x = 0; x < fieldCount; ++x) {

			fields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "";

		}

		if (isLastFieldIPv4Address) {
			fields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1], protocol);
		}

		newHost = newFields.reduce((acc, field, index) => {
			if (!field || field === "0") {
				const lastLongest = acc[acc.length - 1];
				if (lastLongest && lastLongest.index + lastLongest.length === index) {
					lastLongest.length++;
				} else {
					acc.push({ index, length: 1 });
				}
			}
			return acc;
		}, [{}]);

		if (zone) {
			newHost += "%" + zone;
		}

		return newHost;
	} else {
		return host;
	}
function _recomposeAuthority(components: URIComponents, options: URIOptions): string | undefined {
  const protocol = (options.iri !== false ? IRI_PROTOCOL : URI_PROTOCOL);
  const uriTokens: Array<string> = [];

  if (components.userinfo !== undefined) {
    uriTokens.push(components.userinfo);
    uriTokens.push("@");
  }

  if (components.host !== undefined) {
    // normalize IP hosts, add brackets and escape zone separator for IPv6
    uriTokens.push(_normalizeIPv6(_normalizeIPv4(String(components.host), protocol), protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => "[" + $1 + ($2 ? "%25" + $2 : "") + "]"));
  }

  if (typeof components.port === "number") {
    uriTokens.push(":");
    uriTokens.push(components.port.toString(10));
  }

  return uriTokens.length ? uriTokens.join("") : undefined;
}

export function removeDotSegments(input: string): string {
  const output: Array<string> = [];

  while (input.length) {
    if (input.match(RDS1)) {
      input = input.replace(RDS1, "");
    } else if (input.match(RDS2)) {
      input = input.replace(RDS2, "/");
    } else if (input.match(RDS3)) {
      input = input.replace(RDS3, "/");
      output.pop();
    } else if (input === "." || input === "..") {
      input = "";
    } else {
      const im = input.match(RDS5);
      if (im) {
        const s = im[0];
        input = input.slice(s.length);
        output.push(s);
      } else {
        throw new Error("Unexpected dot segment condition");
      }
    }
  }

  return output.join("");
}

export function serialize(components: URIComponents, options: URIOptions = {}): string {
  const protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);
  const uriTokens: Array<string> = [];

  // find scheme handler
  const schemeHandler = SCHEMES[(options.scheme || components.scheme || ")."].toLowerCase());

  // perform scheme specific serialization
  if (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);

  if (components.host) {
    // if host component is an IPv6 address
    if (protocol.IPV6ADDRESS.test(components.host)) {
      // TODO: normalize IPv6 address as per RFC 5952
    }

    // if host component is a domain name
    else if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {
      // convert IDN via punycode
      try {
        components.host = (!options.iri ? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :
          punycode.toUnicode(components.host));
      } catch (e) {
        components.error = components.error || "Host's domain name can not be converted to ASCII via punycode: " + e;
      }
    }

    // normalize encoding
    _normalizeComponentEncoding(components, protocol);

    if (options.reference !== "suffix" && components.scheme) {
      uriTokens.push(components.scheme);
      uriTokens.push(":" + (2 ? ";" + $2 : ";") + ";"));
    }

    if (options.reference !== "suffix") {
      uriTokens.push("//");
    }

    uriTokens.push(_recomposeAuthority(components, options));
  }

  return protocol.IPV6ADDRESS.test(components.host) ? ";" : undefined;
}
uriTokens.join("");

export function resolveComponents(base:URIComponents,
relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {

const

target:URIComponents = {};

if (!skipNormalization) {

target.scheme = relative.scheme;

const

target.authority = relative.authority;

target.userinfo = relative.userinfo;

target.path = removeDotSegments(relative.path || 
"");

target.query = relative.query;

target.fragment = relative.fragment;

return target;
};

export function resolve(baseURI:string, relativeURI:string,
options?:URIOptions):string {

const

schemelessOptions = assign({ scheme : 'null' }, options);

return

serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions),
schemelessOptions, true), schemelessOptions);
};

export function normalize(uri:string,
options?:URIOptions):string;

export function normalize(uri:URIComponents,
options?:URIOptions):URIComponents;

export function normalize(uri:any, options?:URIOptions):any {

if (typeof uri === "string") {

uri = serialize(parse(uri, options), options);
}

if (typeOf(uri) === "object") {

uri = parse(serialize(<URIComponents>uri, options), options);
}

return uri;
};

export function

equal(uriA:string, uriB:string, options?: URIOptions):boolean;

export function equal(uriA:URIComponents,
uriB:URIComponents, options?:URIOptions):boolean;

export function equal(uriA:any, uriB:any,
options?:URIOptions):boolean {

if (typeof uriA === "string") {

uriA = serialize(parse(uriA, options), options);
}

if (typeOf(uriA) === "object") {

uriA = serialize(<URIComponents>uriA, options);
}

if (typeof uriB === "string") {

uriB = serialize(parse(uriB, options), options);
}

if (typeOf(uriB) === "object") {

uriB = serialize(<URIComponents>uriB, options);
}

if (!uriA) {

return false;
}

if (!uriB) {

return false;
}

return uriA === uriB;
};

export function escapeComponent(str:string, options?:URIOptions):string {

return str &&

str.toString().replace((!options || !options.iri ? URI_PROTOCOL.ESCAPE : IRI_PROTOCOL.ESCAPE),
pctEncChar);
};

export function unescapeComponent(str:string, options?:URIOptions):string {

return str &&

str.toString().replace((!options || !options.iri ? URI_PROTOCOL.PCT_ENCODED : IRI_PROTOCOL.PCT_ENCODED), pctDecChars);
};

import { URISchemeHandler, URIComponents,
URIOptions } from "../uri";

import { pctEncChar, pctDecChars, unescapeComponent } from "../uri";

import punycode from "punycode";

import { merge, subexp, toUpperCase, toArray } from "../util";

export interface

MailtoHeaders {
	[hfname:string]:string
}

export interface MailtoComponents extends URIComponents {
	to:Array<string>,
	headers?:MailtoHeaders,
	subject?:string,
	body?:string
}

const O:MailtoHeaders = {};

const isIRI = true;

const

UNRESERVED$$ = "[A-Za-z0-9\-\_.\~" + (isIRI ? "\xA0-\u200D\u2010-\u2029\u202F-\uD7FF\uF900-\uFDCF\uFDF0-\uFFEF" : "") + "]";

const

HEXDIG$$ = "[0-9A-Fa-f]";  //case-insensitive

const

PCT_ENCODED$ = subexp(subexp("%[EFef]" + HEXDIG$$ + "\%\%" + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$ + HEXDIG$$) + "\%\" + subexp("%[89A-Fa-f]" + HEXDIG$$ + HEXDIG$$ + HEXDIG$$) + "\%\" + subexp("%[0-9A-Fa-f]" + HEXDIG$$ + HEXDIG$$) + "\%\" + subexp("%[a-fA-F0-9]" + HEXDIG$$)
".

Open Source Used In Cisco Meeting Management 3.2  1333
subexp(\"%\" + HEXDIG$$ + HEXDIG$$)); //expanded\n\n//RFC 5322, except these symbols as per RFC 6068: @
: / ? # [ ] & ; =\n//const ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\#\\\\$\\\\%\\\\&\\\\'\\\\*\\\\+\\\\\\\\/\\\\=\\\\?\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QTEXT$$ =
\"[\\\\x01-\\\\x08\\\\x0B\\\\x0C\\\\x0E-\\\\x1F\\\\x7F]\"; //(%d1-8 / %d11-12 / %d14-31 / %d127)\n//const QTEXT$$
= merge(\"[\\\\x21\\\\x23-\\\\x5B\\\\x5D-\\\\x7E]\", OBS_QTEXT$$); //%d33 / %d35-91 / %d93-126 / obsqtext\n//const VCHAR$$ = \"[\\\\x21-\\\\x7E]\";\n//const WSP$$ = \"[\\\\x20\\\\x09]\";\n//const OBS_QP$ =
subexp(\"\\\\\\\\\" + merge(\"[\\\\x00\\\\x0D\\\\x0A]\", OBS_QTEXT$$)); //%d0 / CR / LF / obs-qtext\n//const
FWS$ = subexp(subexp(WSP$$ + \"*\" + \"\\\\x0D\\\\x0A\") + \"?\" + WSP$$ + \"+\");\n//const QUOTED_PAIR$
= subexp(subexp(\"\\\\\\\\\" + subexp(VCHAR$$ + \"|\" + WSP$$)) + \"|\" + OBS_QP$);\n//const
QUOTED_STRING$ = subexp('\\\\\"' + subexp(FWS$ + \"?\" + QCONTENT$) + \"*\" + FWS$ + \"?\" +
'\\\\\"');\nconst ATEXT$$ = \"[A-Za-z0-9\\\\!\\\\$\\\\%\\\\'\\\\*\\\\+\\\\-\\\\^\\\\_\\\\`\\\\{\\\\|\\\\}\\\\~]\";\nconst
QTEXT$$ = \"[\\\\!\\\\$\\\\%\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\-\\\\.0-9\\\\<\\\\>A-Z\\\\x5E-\\\\x7E]\";\nconst VCHAR$$ =
merge(QTEXT$$, \"[\\\\\\\"\\\\\\\\]\");\nconst DOT_ATOM_TEXT$ = subexp(ATEXT$$ + \"+\" + subexp(\"\\\\.\" +
ATEXT$$ + \"+\") + \"*\");\nconst QUOTED_PAIR$ = subexp(\"\\\\\\\\\" + VCHAR$$);\nconst QCONTENT$ =
subexp(QTEXT$$ + \"|\" + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp('\\\\\"' + QCONTENT$ +
\"*\" + '\\\\\"');\n\n//RFC 6068\nconst DTEXT_NO_OBS$$ = \"[\\\\x21-\\\\x5A\\\\x5E-\\\\x7E]\"; //%d33-90 /
%d94-126\nconst SOME_DELIMS$$ = \"[\\\\!\\\\$\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\:\\\\@]\";\nconst QCHAR$ =
subexp(UNRESERVED$$ + \"|\" + PCT_ENCODED$ + \"|\" + SOME_DELIMS$$);\nconst DOMAIN$ =
subexp(DOT_ATOM_TEXT$ + \"|\" + \"\\\\[\" + DTEXT_NO_OBS$$ + \"*\" + \"\\\\]\");\nconst LOCAL_PART$ =
subexp(DOT_ATOM_TEXT$ + \"|\" + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ +
\"\\\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\\\,\" + ADDR_SPEC$) + \"*\");\nconst
HFNAME$ = subexp(QCHAR$ + \"*\");\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ =
subexp(HFNAME$ + \"\\\\=\" + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\\\&\" +
HFIELD$) + \"*\");\nconst HFIELDS$ = subexp(\"\\\\?\" + HFIELDS2$);\nconst MAILTO_URI = new
RegExp(\"^mailto\\\\:\" + TO$ + \"?\" + HFIELDS$ + \"?$\");\n\nconst UNRESERVED = new
RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst
NOT_LOCAL_PART = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", '[\\\\\"]', VCHAR$$), \"g\");\nconst
NOT_DOMAIN = new RegExp(merge(\"[^]\", ATEXT$$, \"[\\\\.]\", \"[\\\\[]\", DTEXT_NO_OBS$$, \"[\\\\]]\"),
\"g\");\nconst NOT_HFNAME = new RegExp(merge(\"[^]\", UNRESERVED$$, SOME_DELIMS$$),
\"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \"$\");\nconst
HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \"$\");\n\nfunction decodeUnreserved(str:string):string {\n\tconst
decStr = pctDecChars(str);\n\treturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\n\nconst
handler:URISchemeHandler<MailtoComponents> = {\n\tscheme : \"mailto\",\n\n\tparse : function
(components:URIComponents, options:URIOptions):MailtoComponents {\n\t\tconst mailtoComponents =
components as MailtoComponents;\n\t\tconst to = mailtoComponents.to = (mailtoComponents.path ?
mailtoComponents.path.split(\",\") : []);\n\t\tmailtoComponents.path = undefined;\n\n\t\tif
(mailtoComponents.query) {\n\t\t\tlet unknownHeaders = false\n\t\t\tconst headers:MailtoHeaders = {};\n\t\t\tconst
hfields = mailtoComponents.query.split(\"&\");\n\n\t\t\tfor (let x = 0, xl = hfields.length; x < xl; ++x) {\n\t\t\t\tconst
hfield = hfields[x].split(\"=\");\n\n\t\t\t\tswitch (hfield[0]) {\n\t\t\t\t\tcase \"to\":\n\t\t\t\t\t\tconst toAddrs =
hfield[1].split(\",\");\n\t\t\t\t\t\tfor (let x = 0, xl = toAddrs.length; x < xl; ++x)
{\n\t\t\t\t\t\t\tto.push(toAddrs[x]);\n\t\t\t\t\t\t}\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tcase
\"subject\":\n\t\t\t\t\t\tmailtoComponents.subject = unescapeComponent(hfield[1],
options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tcase \"body\":\n\t\t\t\t\t\tmailtoComponents.body =
unescapeComponent(hfield[1], options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t\tdefault:\n\t\t\t\t\t\tunknownHeaders =
true;\n\t\t\t\t\t\theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],
options);\n\t\t\t\t\t\tbreak;\n\t\t\t\t}\n\t\t\t}\n\n\t\t\tif (unknownHeaders) mailtoComponents.headers =
headers;\n\t\t}\n\n\t\tmailtoComponents.query = undefined;\n\n\t\tfor (let x = 0, xl = to.length; x < xl; ++x)
{\n\t\t\tconst addr = to[x].split(\"@\");\n\n\t\t\taddr[0] = unescapeComponent(addr[0]);\n\n\t\t\tif

Open Source Used In Cisco Meeting Management 3.2 1334


import { URIRegExps } from "./uri";
import { buildExps } from "./regexps-uri";

export default buildExps(true);

import { URISchemeHandler, URIComponents, URIOptions } from "../uri";

const handler:URISchemeHandler = {
  scheme: "http",
  domainHost: true,
  parse: function
};

export default handler;

import { URISchemeHandler, URIComponents, URIOptions } from "../uri";
import http from "./http";

const handler:URISchemeHandler = {
  scheme: "https",
  domainHost: http.domainHost,
  parse: http.parse,
  serialize: http.serialize
};

export default handler;

import { URISchemeHandler, URIComponents, URIOptions } from "../uri";
import { pctEncChar, SCHEMES } from "../uri";

export interface URNComponents extends URIComponents {
  nid?: string;
  nss?: string;
}

export interface URNOptions extends URIOptions {
  nid?: string;
}

const NID$ = "(?:\[0-9A-Za-z\]\[0-9A-Za-z\\-]{1,31})";
const PCT_ENCODED$ = "(?:\\%[0-9A-Fa-f]{2})";
const TRANS$$ = "[0-9A-Za-z\\(\\)\\+\\,\\-\\.\\:\\=\\@\\;\\$\\_\\!\\*\\'\\/\\?\\#]";
const NSS$ = "(?:" + PCT_ENCODED$ + "|" + TRANS$$ + ")+";
const URN_SCHEME = new RegExp("^urn:\:(" + NID$ + ")$"scene: "urn:
  domainHost: http.domainHost,
  parse: function
};

export default handler;

xml or a RFC 2141

basic code point whose value (when used for n * representing integers) is 'digit', which needs to be in the range n * '0' to 'base - 1'. If ‘flag’ is non-zero, the uppercase form is used; else, the lowercase form is used. The behavior is undefined if 'flag' is non-zero and 'digit' has no uppercase form. n */*/unconst digitToBasic = function(digit, flag) {
	\u0022...
generalized variable-length integer.

\[
const t = k <= bias ? qMinT : (k >= bias + tMax ? tMax : k - bias)\
\]

\[
let q = delta;\
for (let k = base; /* no condition */; k += base)
{
const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
if (q < t)
{
break;
}
const qMinusT = q - t;
const baseMinusT = base - t;
output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
q = floor(qMinusT / baseMinusT);
}

output.push(stringFromCharCode(digitToBasic(q, 0)));
bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
delta = 0;handledCPCount++;return output.join('');\]

`;
Found in path(s):
* /opt/cola/permissions/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-g4f6f600/dist/es5/uri.all.js.map

No license file was found, but licenses were detected in source scan.

import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');

export default {
  entry: "dist/esnext/index.js",
  format: "umd",
  moduleName: "URI",
  plugins: [
    resolve({
      module: true,
      jsnext: true,
      preferBuiltins: false
    } ),

    babel({
      "presets": [
        "latest", {
          "es2015": {
            "modules": false
          }
        }
      ],
      "plugins": ["external-helpers"],
      "externalHelpers": false
    } ),

    dest: "dist/es5/uri.all.js",
    sourceMap: true,
    banner: "/** @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */"
  } );

Found in path(s): 
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/rollup.config.js
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-
  4f6f600/dist/esnext/uri.js
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-
  4f6f600/src/uri.ts

1.274 open-vm-tools 10.3.5

1.274.1 Available under license :

LICENSE

Open-vm-tools v10.3.0

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released
under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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>>> unicode-5.0

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1.275 linux-headers 4.19.107

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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b) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 *         interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 *         and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 *         loss of link, and correctly re-enable PHY when link is
 *         re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 *    combined, allow nicstar_free_rx_skb to be called to
 *    recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *

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* M. Welsh, 6 July 1996
*
*/

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1.276 postcss-modules-extract-imports 1.2.1

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1.277 browserify-sign 4.0.4

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1.278 normalize-path 2.1.1

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1.279 babel-plugin-transform-es2015-duplicate-keys 6.24.1

1.280 chardet 3.0.4

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1.281 icss-replace-symbols 1.1.0

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1.282 cipher-base 1.0.4

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1.284 glob-parent 2.0.0

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1.285 libvmtools 10.3.5.7752

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $
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1.286 user-home 1.1.1

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1.287 source-map 0.5.7

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1.288 urllib3 1.24.2

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## Contributors

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* victor.vde <http://code.google.com/u/victor.vde/>
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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params
* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality
* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.
* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection
* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.bruceberry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.289 taglib 0.12.1

1.289.1 Available under license :
Tablib includes some vendorized python libraries: ordereddict, markup.

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===============

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1.290 cssesc 0.1.0

1.290.1 Available under license:

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1.291 postcss-modules-local-by-default 1.2.0

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1.292 fill-range 2.2.3
1.292.1 Available under license:
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1.293 babel-cli 6.26.0

1.294 minimalistic-assert 1.0.1
1.294.1 Available under license:
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1.296 babel-polyfill 6.26.0

1.297 babel-plugin-transform-es2015-spread 6.22.0

1.298 private 0.1.8
1.298.1 Available under license :
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1.299 xz 5.2.4

1.299.1 Available under license:

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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*
* M. Welsh, 6 July 1996
*
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1.331 babel-helper-optimise-call-expression

6.24.1

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1.337 python-requests 2.21.0
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType('room', Integer().subtype(
      implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
    )
  ),
```

```bash
```
It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
  id=123
  room=321
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
  id is 123
  room is 321
  house is 0
```
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:
```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:
```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```
```
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

--------------
The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0.4.4-1.tar-gz/pyasn1-0.4.4/pyasn1.egg-info/PKG-INFO
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Abstract Syntax Notation One (`ASN.1 <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

--------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions `<https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.
Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1> on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
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Open Source Used In Cisco Meeting Management 3.2  1733

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

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Getting help
------------

Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_ or search
`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063244945_1592966586.95/0/pyasn1-0.4.4/docs/source/contents.rst

1.340 babel-helper-get-function-arity 6.24.1

1.341 icss-utils 2.1.0

1.341.1 Available under license :

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1.342 object.omit 2.0.1

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1.344 setuptools-scm 3.3.3

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1.345 cyrus-sasl 2.1.27+dfsg

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1.352 style-loader 0.21.0

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1.353 diff-match-patch 20121119

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1.354 ajv-keywords 3.4.0

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1.367 **pickleshare 0.7.4**

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1.368 **css-loader 1.0.1**

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1.369 regenerator-transform 0.10.1

1.370 plotly-js-basic-dist 1.44.1
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1.372 babel-plugin-transform-es2015-
template-literals 6.22.0

1.373 readdirp 2.1.0

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1.375 babel-plugin-transform-es2015-classes
6.24.1

1.376 readline 8.0
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1.381 bn.js 4.11.8

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.383 glob 7.1.2
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6.24.1

1.385 create-hmac 1.1.7
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1.389 brace-expansion 1.1.11

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1.393 libaio 0.3.111

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1.396 ntlm-auth 1.2.0

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1.397 arr-diff 2.0.0

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1.398 file-loader 1.11

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1.399 babel-plugin-transform-es2015-typeof-symbol 6.23.0

1.400 ms 2.0.0

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1.401 select2 4.0.8

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1.402 iptables 1.8.3

1.403 paramiko 2.6.0

1.404 supports-color 5.5.0
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1.405 jsonschema 3.0.1

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1.406 fast-json-stable-stringify 2.0.0
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1.407 glib 2.62.4-1~ubuntu19.10.2

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      table, the facility still operates, and performs whatever part of
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
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1.408 pyrsistent 0.15.6

1.408.1 Available under license:

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1.409 hyperlink 18.0.0

1.409.1 Available under license:

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1.410 filename-regex 2.0.1

1.410.1 Available under license:

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1.411 dcron 4.5

1.412 babel-plugin-check-es2015-constants 6.22.0

1.413 babel-plugin-transform-es2015-unicode-regex 6.24.1
1.414 flatpickr 4.5.2  
1.414.1 Available under license:

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1.415 requests-toolbelt 0.8.0  
1.415.1 Available under license:

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1.416 django 2.1.4
New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
============

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

   The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

   If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

   Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

   Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as
expected. Simply updating a patch is both useful and important! See more on
:doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find
a typo? Do you think that something should be clarified? Go ahead and
suggest a documentation patch! See also the guide on
:doc:`writing-documentation`.

.. note::

    The `reports page`_ contains links to many useful Trac queries, including
    several that are useful for triaging tickets and reviewing patches as
    suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/
.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/
.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's
some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or
  that you want to learn about**

You don't already have to be an expert on the area you want to work on; you
become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words.
When reading Trac, you need to take into account who says things, and when
they were said. Support for an idea two years ago doesn't necessarily mean
that the idea will still have support. You also need to pay attention to who
*hasn't* spoken -- for example, if an experienced contributor hasn't been
recently involved in a discussion, then a ticket may not have the support
required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the
If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

FAQ

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**
First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
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<th>Year</th>
<th>Owner</th>
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</table>
Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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1.459 asn1.js 4.10.1

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1.460 simplegeneric 0.8.1

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1.461 babel-core 6.26.0

1.462 json5 1.0.1
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## Contributions to the urllib3 project

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### Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

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* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabababacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <dadriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.
* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>  
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`.

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.464 odfpy 1.3.6

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1.465 django-import-export 1.0.1

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1.467 pcre 8.44

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