Subject: Re: RegExp this'n that
Posted by luoganda on Sun, 04 Dec 2016 13:45:59 GMT
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Yes.

Newer version doesn't have problems around matching more that cca 10 captures, even if def max_pcre_offsets=30(default),
that's because some bugs were fixed - using default value 30 is ok for general usage(cca18stack_based), and more than
that, lib will use malloc(and copy some values there).

So for upp pcre optimal usage:
-config.h <=remove any max_pcre_offsets definitions(using 30 as defPcreDoesIsEnoughForMost,
that is (30*2)/3-2=18maxStackBasedCaptures
-pcre_exec.c <=modify lines near REC_STACK_SAVE_MAX into:

```
#ifdef pcre_max_stack_offsets
#define REC_STACK_SAVE_MAX pcre_max_stack_offsets
#else
#define REC_STACK_SAVE_MAX 30
#endif
```

-RegExp.h <=modify lines near

```
#ifdef pcre_max_stack_offsets
int pos[pcre_max_stack_offsets]; //must be multiple of 3
#else
int pos[30];    //original 30(okForMostOfGeneralStuff)=(30*2)/3=max 20-2(forErr)=18
                    capturedBackRefs stack based, else malloc is used(and copied!)
#endif
```

Now,if you want to fine tune RegExp stack based usage, define pcre_max_stack_offsets in TheIDE, or command line - multipleOf 3.

This matches in updated pcre version:

```
RegExp re(
 "(00name)|(02name)|(03name)|(04name)|(05name)|(06name)|(07name)|(08name)|(09name)|(10name)|"
 "(01name)|(12name)|(13name)|(14name)|(15name)|(16name)|(17name)|(18name)|(19name)|(20name)|"
 "(21name)|(22name)|(23name)|(24name)|(25name)|(26name)|(27name)|(28name)|(29name)|(30name)|"
 "(31name)|(32name)|(33name)|(34name)|(35name)|(36name)|(37name)|(38name)|(39name)|(40name)|"
 "(41name)|(42name)|(43name)|(44name)|(45name)|(46name)|(47name)|(48name)|(49name)|(50name)|"
 "(51name)|(52name)|(53name)|(54name)|(55name)|(56name)|(57name)|(58name)|(59name)|(60name)|"
```

"(61name)|(62name)|(63name)|(64name)|(65name)|(66name)|(67name)|(68name)|(69name)|(70name)|"
"(71name)|(72name)|(73name)|(74name)|(75name)|(76name)|(77name)|(78name)|(79name)|(80name)|"
"(81name)|(82name)|(83name)|(84name)|(85name)|(86name)|(87name)|(88name)|(89name)|(90name)|"
"(91name)|(92name)|(93name)|(94name)|(95name)|(96name)|(97name)|(98name)|(99name)|(100name)" //100

"(100name)|(102name)|(103name)|(104name)|(105name)|(106name)|(107name)|(108name)|(109name)|(110name)|"
"(101name)|(112name)|(113name)|(114name)|(115name)|(116name)|(117name)|(118name)|(119name)|(120name)|"
"(121name)|(122name)|(123name)|(124name)|(125name)|(126name)|(127name)|(128name)|(129name)|(130name)|"
"(131name)|(132name)|(133name)|(134name)|(135name)|(136name)|(137name)|(138name)|(139name)|(140name)|"
"(141name)|(142name)|(143name)|(144name)|(145name)|(146name)|(147name)|(148name)|(149name)|(150name)|"
"(151name)|(152name)|(153name)|(154name)|(155name)|(156name)|(157name)|(158name)|(159name)|(160name)|"
"(161name)|(162name)|(163name)|(164name)|(165name)|(166name)|(167name)|(168name)|(169name)|(170name)|"
"(171name)|(172name)|(173name)|(174name)|(175name)|(176name)|(177name)|(178name)|(179name)|(180name)|"
"(181name)|(182name)|(183name)|(184name)|(185name)|(186name)|(187name)|(188name)|(189name)|(190name)|"
"(191name)|(192name)|(193name)|(194name)|(195name)|(196name)|(197name)|(198name)|(199name)|(200name)" //200

"(200name)|(202name)|(203name)|(204name)|(205name)|(206name)|(207name)|(208name)|(209name)|(210name)|"
"(201name)|(212name)|(213name)|(214name)|(215name)|(216name)|(217name)|(218name)|(219name)|(220name)|"
"(221name)|(222name)|(223name)|(224name)|(225name)|(226name)|(227name)|(228name)|(229name)|(230name)|"
"(231name)|(232name)|(233name)|(234name)|(235name)|(236name)|(237name)|(238name)|(239name)|(240name)|"
"(241name)|(242name)|(243name)|(244name)|(245name)|(246name)|(247name)|(248name)|(249name)|(250name)|"
"(251name)|(252name)|(253name)|(254name)|(255name)|(256name)|(257name)|(258name)|(259name)|(260name)|"
"(261name)|(262name)|(263name)|(264name)|(265name)|(266name)|(267name)|(268name)|(269name)|(270name)|"
"(271name)|(272name)|(273name)|(274name)|(275name)|(276name)|(277name)|(278name)|(279name)|(280name)|"
"(281name)|(282name)|(283name)|(284name)|(285name)|(286name)|(287name)|(288name)|(289name)|(290name)|"

```
 "(291name)|(292name)|(293name)|(294name)|(295name)|(296name)|(297name)|(298name)|(299
name)|(300name)" //300
);
if(re.Match("300name"))PromptOK("Matches");
```