
Subject: Re: SetLineKeyValue - in memory:update2
Posted by [luoganda](#) on Sun, 30 Apr 2017 12:33:53 GMT
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Using SetLineKeyValue with StringStream:

-StringStream: a few funcs should be added to use this,chk down

If you read this, there was also original func update - chk original message

Usage:

-to speedup and data(lines) is/are known to be contiguous,then;

SetLineKeyValue(ss,"a key","a value");

ss.GetLine(); //advance pos to next line,so next is found immediately

-when keys(data) is not known to be contiguous(butAreSearchable),then;

SetLineKeyValue(ss,"a key","a value"); //just this

```
bool SetLineKeyValue(StringStream& ss,const String& key,const String& val,bool
chkForEqualSign,dword *chkForExistanceOnly,String *prevBack){
```

```
    if(ss.IsEof())return false;
```

```
    register char *p=(char*)ss.PeekPtr();
```

```
    int64 fpos=ss.GetPos();ss.Seek(0);
```

```
    char *pst,*porg=p,*ssSt=(char*)ss.PeekPtr();
```

```
    int pos,off,linenum;
```

```
    ss.Seek(fpos);
```

```
    if(prevBack)*prevBack="";
```

```
    while(*p){
```

```
        fpos=ss.GetPos(); linenum=0;pos=0;pst=p;
```

```
while(*p){if(*p=='\r'&&*p=='\n'){linenum=p-pst/*p~lines-fpos*/;break;}if(*p=='\r'||*p=='\n'){linenum=p
-pst/*p~lines-fpos*/;break;}if(*p=='=')pos=p-pst/*p~lines-fpos*/; ++p;}
```

```
    if(*p!=0)++p;
```

```
    if(linenum==0 && 0==(linenum=p-(/*p?1:0)-pst/*~lines-fpos*/))continue;
```

```
    if(linenum&&*pst=='='||linenum>=2&&pst[0]=='/'&&pst[1]=='/')continue;
```

```
    if(chkForEqualSign&&!pos)continue;
```

```
if(linenum<key.GetCount()+(chkForEqualSign?1:0)||0!=memcmp(pst,~key,key.GetCount()))contin
ue;if(chkForEqualSign&&pst[key.GetCount()]!='=')continue;
```

```
if(prevBack&&linenum>fpos+/*key.GetCount()*/pos+1)*prevBack=String(pst+/*key.GetCount()*/po
s+1/*lines.Mid(fpos+key.GetCount()+1*/,linenum-(/*key.GetCount()*/pos+1));
```

```
    if(chkForExistanceOnly){*chkForExistanceOnly=(dword)(int32)fpos;return true;}
```

```
    fpos+=/*key.GetCount()*/pos+1;
```

```
    off=(/*key.GetCount()*/pos+1+val.GetCount())-linenum; //speedup a little - don't insert/remove
twice
```

```
    if(off<0)ss.Remove(abs(off),fpos); else if(off)ss.Insert('R',off,fpos);
```

```
    *(char*)ss.GetIter(fpos-1)='='; memcpy((void*)ss.GetIter(fpos),~val,val.GetCount());
```

```

    //if(off<0)slns. lines.Remove(fpos,abs(off)); else if(off)lines.Insert(fpos," ",off);
    /*(char*)lines.GetItter(fpos-1)!=''; memcpy((void*)lines.GetItter(fpos),~val,val.GetCount());
    return true;
    }
    return false;
}

```

StringStream added code for this - but should be revisited;
 StringStream has Put methods but no Remove(Pos isTakenInConsideration), here they are - but
 are not yet 100% tested
 optimally it should be added between SetSize and Open

```

virtual void Insert(int ch,int num=1,int at=-1);
virtual void Insert(const String& str,int at=-1);
virtual void Remove(int num=1,int at=-1);
virtual const byte* GetItter(int at){ASSERT(at<GetSize());return buffer+at;}

```

//cpp files

```

void StringStream::Insert(int ch,int num,int at){
    Insert(String(ch,num),at);
}
void StringStream::Insert(const String& str,int at){
    if(at== -1)at=GetPos();
    ASSERT(at+str.GetCount()<=GetSize());
    SetReadMode(); //justToKnowWhichToUse...
    int64 npos=at<GetPos()?GetPos()+GetPos()-at:GetPos();
    data.Insert(at,str);
    buffer = (byte *) ~data; //<=this should be checked,may point to another unknown buffer
    //ptr = wrlim = buffer;
    rdlim = buffer + data.GetCount();
    Seek(npos);
}
void StringStream::Remove(int num,int at){
    if(at== -1)at=GetPos();
    ASSERT(at+num<=GetSize());
    SetReadMode(); //justToKnowWhichToUse...
    int64 npos=at<=GetPos()?GetPos()-num/*+GetPos()-at*/:GetPos();
    data.Remove(at,num);
    //memmove(buffer+at,buffer+at+num,n);
    buffer = (byte *) ~data;
    rdlim = buffer + data.GetCount();
    Seek(npos);
}

```