
Subject: Re: [PATCH 3/7] perf: add ability to change event according to sample (v2)
Posted by [David Ahern](#) on Tue, 06 Dec 2011 14:57:38 GMT
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On 12/06/2011 07:19 AM, Arnaldo Carvalho de Melo wrote:

> Em Mon, Nov 28, 2011 at 12:03:31PM +0300, Andrew Vagin escreveu:

>> It's opposition of perf_session__parse_sample.

>>

>> v2: fixed mistakes which David Arhen found

>

> Ok, I'm taking this one, David, can I added an 'Acked-by: you"? Or even

> "reviewed-by:" ?

>

> I'm just changing 'data' to 'sample', data is way to vague, I kept it

> for a while in the past just to reduce patch size, but this is something

> completely new, so better use 'sample'.

>

> - Arnaldo

>

>> Signed-off-by: Andrew Vagin <avagin@openvz.org>

>> ---

>> tools/perf/util/event.h | 2 +

>> tools/perf/util/evsel.c | 74 ++++++

>> tools/perf/util/session.h | 9 +++++

>> 3 files changed, 85 insertions(+), 0 deletions(-)

>>

>> diff --git a/tools/perf/util/event.h b/tools/perf/util/event.h

>> index 357a85b..0493101 100644

>> --- a/tools/perf/util/event.h

>> +++ b/tools/perf/util/event.h

>> @@ -187,5 +187,7 @@ const char *perf_event__name(unsigned int id);

>> int perf_event__parse_sample(const union perf_event *event, u64 type,

>> int sample_size, bool sample_id_all,

>> struct perf_sample *sample, bool swapped);

>> +int perf_event__change_sample(union perf_event *event, u64 type,

>> + const struct perf_sample *data, bool swapped);

>>

>> #endif /* __PERF_RECORD_H */

>> diff --git a/tools/perf/util/evsel.c b/tools/perf/util/evsel.c

>> index e426264..d697568 100644

>> --- a/tools/perf/util/evsel.c

>> +++ b/tools/perf/util/evsel.c

>> @@ -494,3 +494,77 @@ int perf_event__parse_sample(const union perf_event *event, u64
type,

>>

>> return 0;

>> }

>> +

```

>> +int perf_event__change_sample(union perf_event *event, u64 type,
>> +    const struct perf_sample *data, bool swapped)
>> +{
>> + u64 *array;
>> +
>> + /*
>> +  * used for cross-endian analysis. See git commit 65014ab3
>> +  * for why this goofiness is needed.
>> +  */
>> + union {
>> +  u64 val64;
>> +  u32 val32[2];
>> + } u;
>> +
>> + array = event->sample.array;
>> +
>> + if (type & PERF_SAMPLE_IP) {
>> +  event->ip.ip = data->ip;
>> +  array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_TID) {
>> +  u.val32[0] = data->pid;
>> +  u.val32[1] = data->tid;
>> +  if (swapped) {
>> +   /* undo swap of u64, then swap on individual u32s */

```

Comment is from the parse sample code; this is the inverse of that code so the comment needs to be updated here.

```

>> +  u.val32[0] = bswap_32(u.val32[0]);
>> +  u.val32[1] = bswap_32(u.val32[1]);
>> +  u.val64 = bswap_64(u.val64);
>> + }
>> +
>> + *array = u.val64;
>> + array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_TIME) {
>> +  *array = data->time;
>> +  array++;
>> + }
>> +
>> + if (type & PERF_SAMPLE_ADDR) {
>> +  *array = data->addr;
>> +  array++;
>> + }

```

```
>> +  
>> + if (type & PERF_SAMPLE_ID) {  
>> + *array = data->id;  
>> + array++;  
>> + }  
>> +  
>> + if (type & PERF_SAMPLE_STREAM_ID) {  
>> + *array = data->stream_id;  
>> + array++;  
>> + }  
>> +  
>> + if (type & PERF_SAMPLE_CPU) {  
>> + u.val32[0] = data->cpu;  
>> + if (swapped) {  
>> + /* undo swap of u64, then swap on individual u32s */
```

Ditto on that comment.

I did not test it, but the logic is in the inverse of parse_sample so it should be correct.

Arnaldo: you could use remove the 2 comment lines on the commit since there are no logic impacts.

Reviewed-by: David Ahern <dsahern@gmail.com>

David
