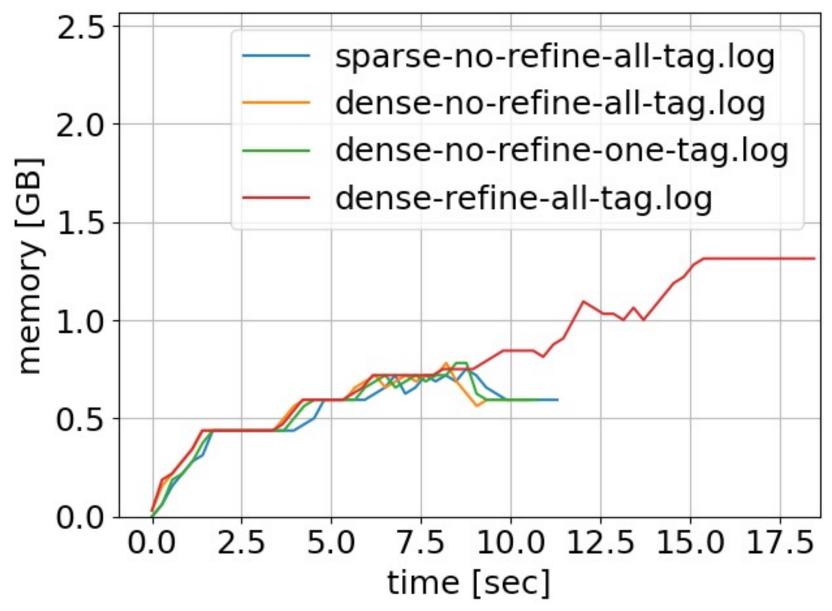
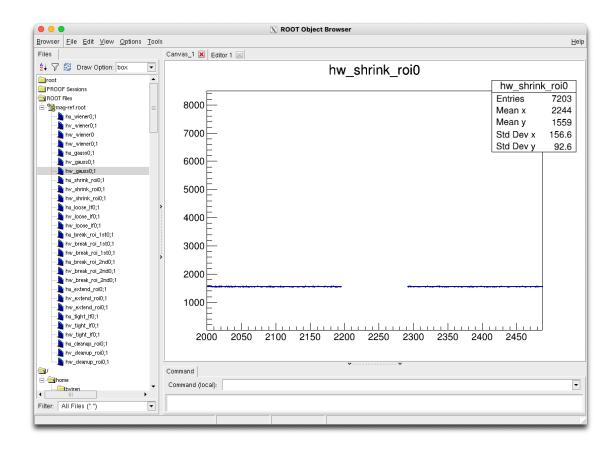
Code     Blame     76 lines (61 loc) · 2.75 KB       Older     Newer						
,		34	<pre>troi_ind_th_factor: 3.0, // default 3</pre>			
		35	lroi_rebin: 6, // default 6			
		36	<pre>lroi_th_factor: 3.5, // default 3.5</pre>			
		37	<pre>lroi_th_factor1: 0.7, // default 0.7</pre>			
		38	<pre>lroi_jump_one_bin: 1, // default 0</pre>			
		39				
		40	r_th_factor: 3.0, // default 3			
		41	<pre>r_fake_signal_low_th: 375, // default 500</pre>			
		42	<pre>r_fake_signal_high_th: 750, // default 1000</pre>			
		43	<pre>r_fake_signal_low_th_ind_factor: 1.0, // default 1</pre>			
		44	<pre>r_fake_signal_high_th_ind_factor: 1.0, // default 1</pre>			
		45	r_th_peak: 3.0, // default 3.0			
		46	r_sep_peak: 6.0, // default 6.0			
		47	<pre>r_low_peak_sep_threshold_pre: 1200, // default 1200</pre>			
		48				
		49				
		50	<pre>wiener_tag: 'wiener%d' % anode.data.ident,</pre>			
		51	<pre>wiener_threshold_tag: 'threshold%d' % anode.data.ident,</pre>			
		52	<pre>gauss_tag: 'gauss%d' % anode.data.ident,</pre>			
		53				
		54	use_roi_debug_mode: false,			
months ago	🔕 Including the "decon" output ( II 🗌	55	<pre>use_roi_refinement: true, //false, // default: true</pre>			
years ago	nove experiment specific wirec	56	<pre>tight_lf_tag: 'tight_lf%d' % anode.data.ident,</pre>			
		57	<pre>loose_lf_tag: 'loose_lf%d' % anode.data.ident,</pre>			
		58	<pre>cleanup_roi_tag: 'cleanup_roi%d' % anode.data.ident,</pre>			
		59	<pre>break_roi_loop1_tag: 'break_roi_1st%d' % anode.data.ident,</pre>			
		60	<pre>break_roi_loop2_tag: 'break_roi_2nd%d' % anode.data.ident,</pre>			
		61	<pre>shrink_roi_tag: 'shrink_roi%d' % anode.data.ident,</pre>			
		62	<pre>extend_roi_tag: 'extend_roi%d' % anode.data.ident,</pre>			
		63				
months ago	Including the "decon" output ( II]	64	<pre>decon_charge_tag: 'decon%d' % anode.data.ident,</pre>			
	Windowig the accounter (in in	65				

mp2\_roi\_tag: 'mp2\_roi%d' % anode.data.ident,



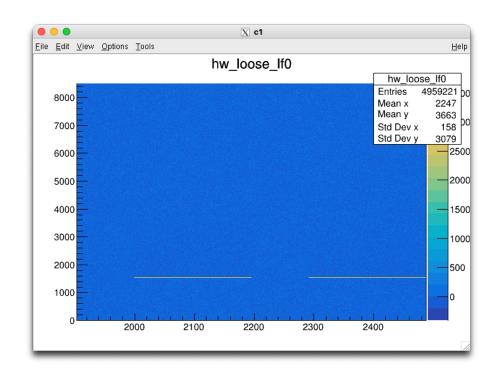






TFile\*\* mag.root TFile\* mag.root KEY: TH2F hu\_loose\_lf0;1 hu\_loose\_lf0 hv\_loose\_lf0;1 hv\_loose\_lf0 KEY: TH2F hw\_loose\_lf0;1 hw\_loose\_lf0 KEY: TH2F root [2] hw\_loose\_lf0->Draw("colz") Info in <TCanvas::MakeDefCanvas>: created default T( root [3] .q /home/yuhw/wc/icarus/sp-mem \$ll \*.root -rw-r--r-- 1 yuhw yuhw 95M Feb 9 01:30 mag-ref.root -rw-r--r-- 1 yuhw yuhw 47M Feb 9 01:43 mag.root /home/yuhw/wc/icarus/sp-mem

\$





ode	Blame	74 lines (60 loc) · 2.69 KB	Code Blam	
34		troi_ind_th_factor: 3.0, // default 3	36	lroi_th_factor: 3.5, // default 3.5
35		lroi_rebin: 6, // default 6	37	lroi_th_factor1: 0.7, // default 0.7
36		<pre>lroi_th_factor: 3.5, // default 3.5</pre>	38	<pre>lroi_jump_one_bin: 1, // default 0</pre>
37		<pre>lroi_th_factor1: 0.7, // default 0.7</pre>	39	
38		<pre>lroi_jump_one_bin: 1, // default 0</pre>	40	r_th_factor: 3.0, // default 3
39			41	r_fake_signal_low_th: 375, // default 500
40		r_th_factor: 3.0, // default 3	42	r_fake_signal_high_th: 750, // default 1000
41		r_fake_signal_low_th: 375, // default 500	43	<pre>r_fake_signal_low_th_ind_factor: 1.0, // default 1</pre>
42		r_fake_signal_high_th: <b>750,</b> // default 1000	44	<pre>r_fake_signal_high_th_ind_factor: 1.0, // default 1</pre>
43		r_fake_signal_low_th_ind_factor: 1.0, // default 1	45	r_th_peak: 3.0, // default 3.0
44		r_fake_signal_high_th_ind_factor: 1.0, // default 1	46	r_sep_peak: 6.0, // default 6.0
45		r_th_peak: 3.0, // default 3.0	47	r_low_peak_sep_threshold_pre: 1200, // default 1200
46		r_sep_peak: 6.0, // default 6.0	48	
47		r_low_peak_sep_threshold_pre: 1200, // default 1200	49	
48			50	<pre>wiener_tag: 'wiener%d' % anode.data.ident,</pre>
49			51	<pre>wiener_threshold_tag: 'threshold%d' % anode.data.ide</pre>
50		<pre>wiener_tag: 'wiener%d' % anode.data.ident,</pre>	52	gauss_tag: 'gauss%d' % anode.data.ident,
51		<pre>wiener_threshold_tag: 'threshold%d' % anode.data.ident,</pre>	53	
52		gauss_tag: 'gauss%d' % anode.data.ident,	54	use_roi_debug_mode: false,
53			55	<pre>use_roi_refinement: true, //false, // default: true</pre>
54		use_roi_debug_mode: false,	56	<pre>tight_lf_tag: 'tight_lf%d' % anode.data.ident,</pre>
55		use_roi_refinement: false, // default: true	57	<pre>loose_lf_tag: 'loose_lf%d' % anode.data.ident,</pre>
56		tight_lf_tag: 'tight_lf%d' % anode.data.ident,	58	<pre>cleanup_roi_tag: 'cleanup_roi%d' % anode.data.ident,</pre>
57		loose_lf_tag: 'loose_lf%d' % anode.data.ident,	59	break_roi_loop1_tag: 'break_roi_1st%d' % anode.data.
58		<pre>cleanup_roi_tag: 'cleanup_roi%d' % anode.data.ident,</pre>	60	<pre>break_roi_loop2_tag: 'break_roi_2nd%d' % anode.data.</pre>
59		<pre>break_roi_loop1_tag: 'break_roi_1st%d' % anode.data.ident,</pre>	61	shrink_roi_tag: 'shrink_roi%d' % anode.data.ident,
60		<pre>break_roi_loop2_tag: 'break_roi_2nd%d' % anode.data.ident,</pre>	62	extend_roi_tag: 'extend_roi%d' % anode.data.ident,
61		<pre>shrink_roi_tag: 'shrink_roi%d' % anode.data.ident,</pre>	63	
62		extend_roi_tag: 'extend_roi%d' % anode.data.ident,	64	<pre>decon_charge_tag: 'decon%d' % anode.data.ident,</pre>

icaruscode / icaruscode / TPC / ICARUSWireCell / icarus / sp.jsonnet



## Brookhaven<sup>-</sup> National Laboratory

≡ dum	ıp.fcl
1660	<pre>files_fields: "icarus_fnal_fit_ks.json.bz2"</pre>
1661	raw_input_label: "dagTPC"
1662	·····reality: "data"
1663	signal_output_form: "dense"
1664	·····tpc_volume_label: 0
1665	·····
1666	····plugins:-[
1667	·····WireCellGen",
1668	·····WireCellSigProc",
1669	·····WireCellRoot",
1670	·····WireCellPgraph",
1671	·····WireCellLarsoft"
1672	· · · · · · · · · · · · · · · · · · ·
1673	<pre>tool_type: "WCLS"</pre>
1674	<pre>&lt;&lt;</pre>
1675	
1676	<pre>decon2droiEE: {</pre>
1677	<pre>module_type: "WireCellToolkit"</pre>
1678	<pre>wcls_main: {</pre>
1679	apps:-[
1680	·····Pgrapher"
1681	
1682	<pre>configs: [</pre>
1683	<pre>www.www.www.pgrapher/experiment/icarus/wcls-decode-to-sig.jsonnet"</pre>
1684	
1685	····inputers: [
1686	<pre>wclsRawFrameSource:rfsrc0"</pre>
1687	· · · · · · · · · · · ]
1688	••••••••••••••••••••••••••••••••••••••
1689	<pre>wclsFrameSaver:spsaver0"</pre>
1690	·····]
1691	••••• params:-{
1692	·····epoch: "after"
1693	<pre>file_rcresp: "icarus_fnal_rc_tail.json"</pre>
1694	<pre>files_fields: "icarus_fnal_fit_ks.json.bz2"</pre>
1695	<pre>raw_input_label: "daqTPCR0I: PHYSCRATEDATATPCEE"</pre>
1696	·····reality: "data"
1697	signal_output_form: "dense"
1698	<pre>tpc_volume_label: 0</pre>
1699	
1700	····plugins: [
1701	·····WireCellGen",

Home C Threads Drafts & sent Drafts & sent C Channels + Add a bookmark + Add a bookmark - Channels + Add a bookmark - Channels + Add a bookmark - Channels + Add a bookmark - Channels - Channels - Channels - Channels	••• •	$\leftarrow$ $\rightarrow$	O Q Search sbn
<ul> <li>A databased</li> <li></li></ul>	<b>1</b>	sbn ~ = 🖄	cerati, Joseph Zennamo, 3 others ~
<ul> <li>A Hanyu Wei</li> <li>A Joseph Zennamo</li> <li>A Joseph Zennamo, Mike Mooney, Sergey Martyuneko</li> <li>A Joseph Zennamo, Mike Mooney, Sergey Martyuneko</li> <li>Sergey Martynenko, Wenqiang Gu</li> <li>A Haiwang Yu you</li> <li>A dd coworkers</li> <li>A pps</li> <li>Sackobt</li> <li>A dd apps</li> <li>Just Keep In-mind that many of the waveforms are "dense", the memory will go up with additional sets of waveforms.</li> <li>Meaning adding more could be NOT freee</li> <li>Cerati 11:10 AM</li> <li>Thanks @Haiwang Yu, gild we tracked it down. Hopefully there is a way to get what ICARUS needs without this memory explosion. Does the individual output with both waveform returned bring us back to the preivous memory usage?</li> <li>Sing Shackobt</li> <li>A dd apps</li> <li>Thanks (B Haiwang Yu 11:13 AM)</li> <li>Cerati 11:10 AM</li> <li>Cerati 11:10 AM<!--</th--><th>Image: Constraint of the second se</th><th rowspan="2"><ul> <li>Channels</li> <li>⇒ Drafts &amp; sent</li> <li>Channels</li> <li># general</li> <li># icarus_production</li> <li># icarus-shift-operations</li> <li># random</li> <li># sbnd-wirecell</li> <li>Add channels</li> <li>Direct messages</li> <li>* cerati, Joseph Zennamo, Mike Mooney, Sergey</li> <li>☆ Avinay Bhat</li> <li>* 5 Bruce, Francois Drielsma, Mike Mooney, Sergey Marty</li> <li>&amp; Hanyu Wei</li> <li>&amp; Joseph Zennamo</li> <li>* a Joseph Zennamo, Mike Mooney, Sergey Marty</li> <li>&amp; Sergey Martynenko</li> <li>* 2 Sergey Martynenko</li> <li>* 2 Sergey Martynenko, Wenqiang Gu</li> <li>&amp; Haiwang Yu you</li> <li>* Add coworkers</li> <li>* Apps</li> <li>* Slackbot</li> </ul></th><th><ul> <li>+ Add a bookmark</li> <li>Sorry, got disconnected. It might be that we would want both. So why do we want full waysforme? Because the ROI finding in the toolkit doesn't seem to work well with the levels of noise we have in ICARUS. So we use the 1D decovolution coupled with a 2D ROI finding algorithm and then <u>Today</u> * a regions to the 2D decon waveform. But it might be that in the future we could apply or 2D ROI finding algorithm on the loose_If output and then apply that to the decon waveform. But for immediate purposes we only need the full decon waveforms. (edited)</li> <li>Also, there was recently developed a "ChannelROI" output object to replace "Wire" the difference being that the ChannelROI objects are simply short ints vs the floats of Wire. So we save a factor of 2 in size and we get better compressibility. I don't know if this could be made an option?</li> <li>cerati 11:06 AM</li> <li>turning that parameter to false heavily reduces the memory usage (and timing as well):</li> <li>Peak resident set size usage (VmHW): 7307.62 MB</li> <li>is cerati Thanks!! will implement the "individual output" option then</li> <li>SFBayLaser 11:08 AM</li> <li>As I typed above, we ultimately will want both I believe</li> <li>Haiwang Yu 11:07 AM</li> <li>gerati Thanks!! will implement the "individual output" option then</li> <li>SFBayLaser 11:08 AM</li> <li>As I typed above, we ultimately will want both I believe</li> </ul></th></li></ul>	Image: Constraint of the second se	<ul> <li>Channels</li> <li>⇒ Drafts &amp; sent</li> <li>Channels</li> <li># general</li> <li># icarus_production</li> <li># icarus-shift-operations</li> <li># random</li> <li># sbnd-wirecell</li> <li>Add channels</li> <li>Direct messages</li> <li>* cerati, Joseph Zennamo, Mike Mooney, Sergey</li> <li>☆ Avinay Bhat</li> <li>* 5 Bruce, Francois Drielsma, Mike Mooney, Sergey Marty</li> <li>&amp; Hanyu Wei</li> <li>&amp; Joseph Zennamo</li> <li>* a Joseph Zennamo, Mike Mooney, Sergey Marty</li> <li>&amp; Sergey Martynenko</li> <li>* 2 Sergey Martynenko</li> <li>* 2 Sergey Martynenko, Wenqiang Gu</li> <li>&amp; Haiwang Yu you</li> <li>* Add coworkers</li> <li>* Apps</li> <li>* Slackbot</li> </ul>	<ul> <li>+ Add a bookmark</li> <li>Sorry, got disconnected. 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+ B I モ @ 注 注   E   ゆ 凹 Message cerati, Joseph Zennamo, Mike Mooney, Sergey Martynenko, SFBayLaser	+		<ul> <li>Interface, and, that volue to do dot whith the infinitial couplet option.</li> <li>Use keep in-mind that many of the waveforms are "dense", the memory will go up with additional sets of waveforms.</li> <li>Meaning adding more could be NOT freee</li> <li>Cerati 1110AM</li> <li>Thanks @Halwang Yu, glad we tracked it down. Hopefully there is a way to get what ICARUS needs without this memory explosion. Does the individual output with both waveform returned bring us back to the prelivous memory usage?</li> <li>SFBayLaser 1110AM</li> <li>FHaiwang Yu 1113AM</li> <li>@cerati right now, <u>use_rot_refinement: true</u> makes about 9 sets of waveforms, some are dense some are sparse. My estimation is that with the individual output option, output <u>loose_lf</u> and <u>decon</u>, both dense, will be about 1/3 to 1/2 of the 9-set situation. So still not free for sure.</li> <li>Cerati 1115AM</li> <li>ok, but still much better than what we have now</li> <li>Haiwang Yu 1115AM</li> <li>Yes</li> </ul>

6

52000\*4096\*4/1024/1024/1024 = 0.8GB



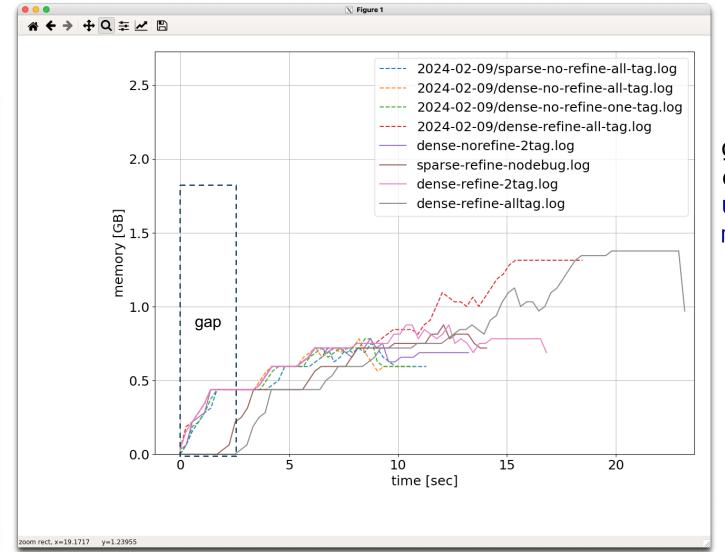
## switches in OmnibusSigProc

m\_use\_roi\_refinement

m\_\*\_tag

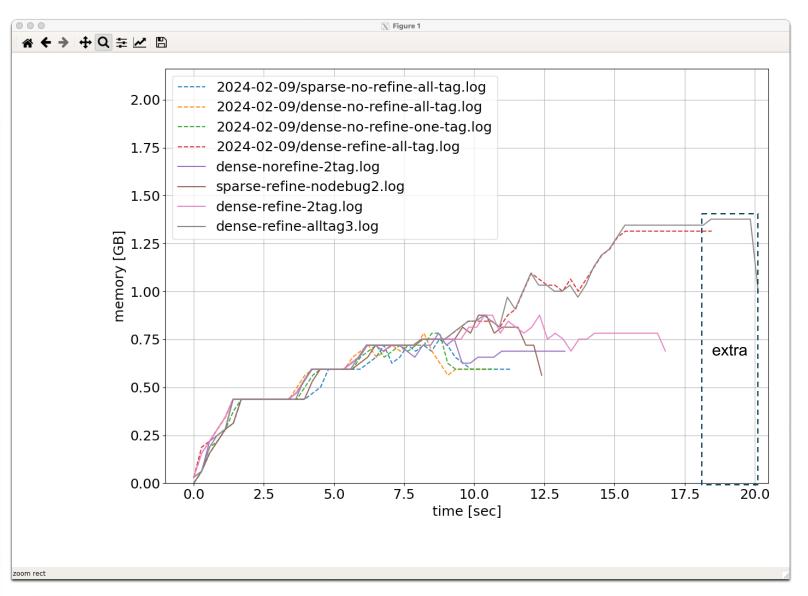
use\_roi\_debug\_mode
use\_multi\_plane\_protection





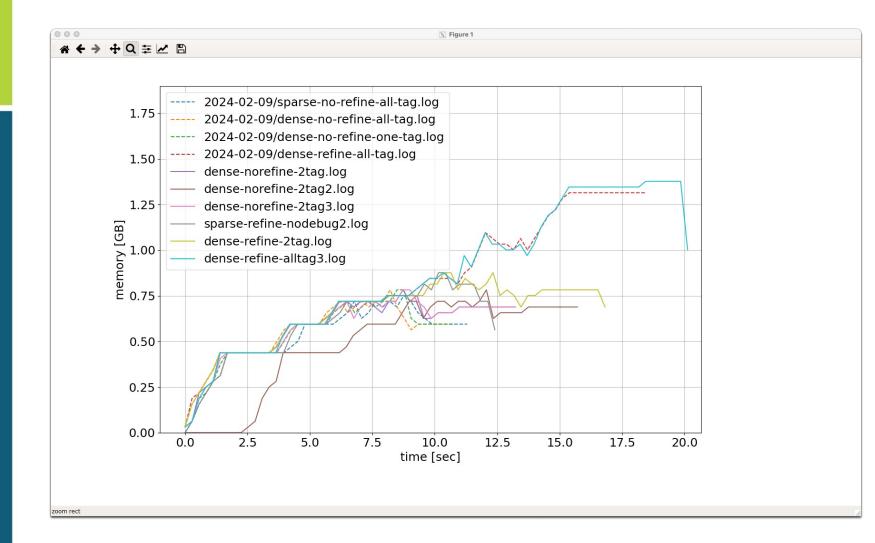
gap: caused by this? use\_multi\_plane\_protection: false, mp\_tick\_resolution: 10,





## extra is caused by dumping decon?





dense-norefine-2tag dense-norefine-2tag2 dense-norefine-2tag3

were run under same cfg

2, 3 were run consecutively

