Roberto Valenti (未驗證)

I mean, I think we could start in any case by June later if we will.

Roberto Valenti (未驗證)

So hi guys.

Roberto Valenti (未驗證)

How are you?

Roberto Valenti (未驗證)

Everything all right?

Chen, Guan-Sheng J

Yeah. Hi.

Roberto Valenti (未驗證)

Alright, good to hear.

Roberto Valenti (未驗證)

OK.

Roberto Valenti (未驗證)

So as usual, you know, we're gonna.

Roberto Valenti (未驗證)

Get a progress some progress from your your side and your projects and discuss any any issues.

Roberto Valenti (未驗證)

That you may have.

Roberto Valenti (未驗證)

So who wants to start with, you know, providing the progress?

Roberto Valenti (未驗證)

We'll have to pick any of you.

Roberto Valenti (未驗證)

Some of you.

Roberto Valenti (未驗證)

One of you?

Chen, Guan-Sheng J

Maybe I I can start first.

Roberto Valenti (未驗證)

Sounds good.

Chen, Guan-Sheng J

Yeah. And then in this in this month, because my goal is to completely RMC approach and then now I have complete because before last meeting I just using a open loop control and then now I decide A to do the cross through control. But I still trying to.

Chen, Guan-Sheng J

Solve it to solve the error.

Roberto Valenti (未驗證)

Oh, which error the the problem with the simulation the the sorry the visualization.

Roberto Valenti (未驗證)

Logical child.

George Amarantidis Koronaios (未驗證)

Function.

George Amarantidis Koronaios (未驗證)

Which which function throws this error? Sorry.

George Amarantidis Koronaios (未驗證)

See this.

Chen, Guan-Sheng J

Is the decorate maybe? Maybe this here?

Miao, Hanzhi

Repl.

Chen, Guan-Sheng J

This this function.

Roberto Valenti (未驗證)

Parent is a variable, isn't it?

George Amarantidis Koronaios (未驗證)

Yes, so don't think.

Roberto Valenti (未驗證)

So yeah, so function metal function line 54.

George Amarantidis Koronaios (未驗證)

So probably if they get transform right.

Chen, Guan-Sheng J

Yeah, it should be get transformed.

Roberto Valenti (未驗證)

Yeah.

George Amarantidis Koronaios (未驗證)

Either logical char if I.

George Amarantidis Koronaios (未驗證)

Return from from calls to the mother interpreter.

George Amarantidis Koronaios (未驗證)

What I would recommend.

George Amarantidis Koronaios (未驗證)

So there are two things here I would recommend you put a break point just before line 47 and you see online no above that online 47.

Chen, Guan-Sheng J

OK.

George Amarantidis Koronaios (未驗證)

And see what he is.

George Amarantidis Koronaios (未驗證)

You just want it to run.

George Amarantidis Koronaios (未驗證)

I don't know if getstrong I this is.

George Amarantidis Koronaios (未驗證)

I don't know a specific function. I can check documentation. If we get transform or geometric Jacobian or one of them perhaps.

George Amarantidis Koronaios (未驗證)

Is not supported by code generation, in which case you'll say code dot extreme.

George Amarantidis Koronaios (未驗證)

Check. I'll send you the link now in the in the chat. Actually. For what what I mean exactly.

George Amarantidis Koronaios (未驗證)

Call doth extrinsic.

George Amarantidis Koronaios (未驗證)

You can define your the function that you don't want to be Co generated in that we can also define you can say which ones they are.

Chen, Guan-Sheng J

OK.

George Amarantidis Koronaios (未驗證)

Roberto, any thoughts?

Roberto Valenti (未驗證)

Yeah, I mean absolutely right.

Roberto Valenti (未驗證)

Although there are very basic functions, should be.

George Amarantidis Koronaios (未驗證)

Is get. I don't. I don't know.

Roberto Valenti (未驗證)

It should be, yeah, that should be able to be con generated.

Roberto Valenti (未驗證)

It looks like it's some sort of mismatch of types, so maybe Are you sure that P this like position desired minus position current, so all they have the same type?

Roberto Valenti (未驗證)

Everything. Yeah, but like I I suggested to do exactly what George told you. Like, do a debugging. You know how to add the like.

Roberto Valenti (未驗證)

Yeah. Yeah, exactly.

Chen, Guan-Sheng J

Is it?

Roberto Valenti (未驗證)

Yeah, click on it and then, yeah.

Chen, Guan-Sheng J

Yeah. OK. OK.

George Amarantidis Koronaios (未驗證)

Hmm.

Roberto Valenti (未驗證)

What?

Roberto Valenti (未驗證)

That's.

George Amarantidis Koronaios (未驗證)

Are we sure it is?

George Amarantidis Koronaios (未驗證)

It is in the. Is it in this this function OK.

Roberto Valenti (未驗證)

Yeah, exactly. I was gonna ask the same.

Roberto Valenti (未驗證)

Is it in this function?

Chen, Guan-Sheng J

OK.

Roberto Valenti (未驗證)

OK.

George Amarantidis Koronaios (未驗證)

Oh, you've done some color.

George Amarantidis Koronaios (未驗證)

Oh, it seems like you got multiple functions in this function conceiving support that.

George Amarantidis Koronaios (未驗證)

I don't think you can do that.

Chen, Guan-Sheng J

I'm I'm not sure.

Chen, Guan-Sheng J

Because.

Chen, Guan-Sheng J

Originally I also use use those function but and then and then for this part it's just the open root control and it's work.

George Amarantidis Koronaios (未驗證)

OK, I see.

Roberto Valenti (未驗證)

All those other expenses.

Roberto Valenti (未驗證)

So then put it at the very beginning, like 24 like as soon as it gets into the function. Perhaps there is.

Roberto Valenti (未驗證)

A.

George Amarantidis Koronaios (未驗證)

So what are you passing?

George Amarantidis Koronaios (未驗證)

What's Q?

George Amarantidis Koronaios (未驗證)

What's this Q that you're passing into this function?

Chen, Guan-Sheng J

A deposit.

Chen, Guan-Sheng J

Yeah, is a constant.

George Amarantidis Koronaios (未驗證)

And you've passed the same to the open loop and that worked.

George Amarantidis Koronaios (未驗證)

Yeah, exactly.

George Amarantidis Koronaios (未驗證)

An array that you're passing through, but yeah, OK.

George Amarantidis Koronaios (未驗證)

So selling is expecting either a logical character in FI, single or double, but found an M xra.

Roberto Valenti (未驗證)

I'm going to write. Oh OK.

George Amarantidis Koronaios (未驗證)

So I'm not sure the input is sensible for this, sorry.

George Amarantidis Koronaios (未驗證)

I have something there.

Roberto Valenti (未驗證)

No, no, no, that's not.

Roberto Valenti (未驗證)

Yeah, the same thing.

Roberto Valenti (未驗證)

So it's you're passing the array, but that's not what it's expecting.

Chen, Guan-Sheng J

As a solar array did not pass in it to this function.

Chen, Guan-Sheng J

My.

George Amarantidis Koronaios (未驗證)

Can you pass that as different inputs?

George Amarantidis Koronaios (未驗證)

Or as.

George Amarantidis Koronaios (未驗證)

A.

George Amarantidis Koronaios (未驗證)

Can I can I see array again that you're passing into it?

Chen, Guan-Sheng J

OK.

George Amarantidis Koronaios (未驗證)

Do you mind?

George Amarantidis Koronaios (未驗證)

Could I did?

George Amarantidis Koronaios (未驗證)

Zero blah blah. Want you passing it as a. It's a six by one.

George Amarantidis Koronaios (未驗證)

Like it's a double. No, no, it is a double.

George Amarantidis Koronaios (未驗證)

It's not an MXR.

George Amarantidis Koronaios (未驗證)

Yeah, Sarge, it is a double.

George Amarantidis Koronaios (未驗證)

Does this change as a function of time? No, right?

Chen, Guan-Sheng J

Yeah.

George Amarantidis Koronaios (未驗證)

Uh.

Roberto Valenti (未驗證)

Is this supposed to be a quanternion?

George Amarantidis Koronaios (未驗證)

Ah, maybe.

Roberto Valenti (未驗證)

So what are you trying to pass here? Is it?

Roberto Valenti (未驗證)

Is it pause?

Roberto Valenti (未驗證)

Pause.

Chen, Guan-Sheng J

Just it's just maybe the random data I try and trying.

Roberto Valenti (未驗證)

But it says there has. What does it say?

Chen, Guan-Sheng J

6512.

Roberto Valenti (未驗證)

Why 6? The Trib earn those five.

George Amarantidis Koronaios (未驗證)

No, there's a zero after the π / 2.

Chen, Guan-Sheng J

Yeah, this one's zero. And this one's π / 4. And then last one is 0.

Roberto Valenti (未驗證)

Oh, OK.

Roberto Valenti (未驗證)

OK.

George Amarantidis Koronaios (未驗證)

And these are states with, right?

Chen, Guan-Sheng J

Yeah.

George Amarantidis Koronaios (未驗證)

Like physically, these are the states of the system.

Chen, Guan-Sheng J

Yeah.

Roberto Valenti (未驗證)

But like this is a.

Roberto Valenti (未驗證)

Column vector.

Chen, Guan-Sheng J

Yeah.

Roberto Valenti (未驗證)

OK.

Roberto Valenti (未驗證)

But that should matter, at least when you enter the function that maybe later, but not.

Roberto Valenti (未驗證)

Is it perhaps the output that goes into?

Roberto Valenti (未驗證)

The other rest of the system that OK. So go back into the outlook function.

Roberto Valenti (未驗證)

You don't, OK?

Roberto Valenti (未驗證)

The goal that we're done when it says Q dot equal to the output.

Roberto Valenti (未驗證)

OK.

Roberto Valenti (未驗證)

So there is some processing over there.

Roberto Valenti (未驗證)

If you comment out whatever you have right now and you uncomment the previous code that that used to work.

Chen, Guan-Sheng J

Yeah, yeah, I've I'm coming the previous work.

Roberto Valenti (未驗證)

Oh, you did.

Chen, Guan-Sheng J

I have come in a previous work.

George Amarantidis Koronaios (未驗證)

No. Revert that, yeah.

Roberto Valenti (未驗證)

But like, if you go back, yeah. If you revert that, does it still work?

Chen, Guan-Sheng J

Yeah, if I can command this and it should work. But the difference that if I use the the previous work and the issue have the other available to to the to be the improve BDS to be this variable.

George Amarantidis Koronaios (未驗證)

Do me a favor really quick.

George Amarantidis Koronaios (未驗證)

Go back to your link workspace to your link. Sorry in your Simulink canvas. Go back.

George Amarantidis Koronaios (未驗證)

Yeah. Just sorry, just a Simulink canvas, Simon.

George Amarantidis Koronaios (未驗證)

Sorry, sorry, sorry.

Roberto Valenti (未驗證)

Yeah, the model.

Chen, Guan-Sheng J

No matter.

George Amarantidis Koronaios (未驗證)

Yeah, your model, yeah.

George Amarantidis Koronaios (未驗證)

You have a six by one array on the top.

Chen, Guan-Sheng J

Yeah.

George Amarantidis Koronaios (未驗證)

What's that?

George Amarantidis Koronaios (未驗證)

And that, yeah.

George Amarantidis Koronaios (未驗證)

So that is essentially the same as. There's still a constant block. OK, fair enough.

Chen, Guan-Sheng J

No, if I yeah.

George Amarantidis Koronaios (未驗證)

Sorry, was it with color?

George Amarantidis Koronaios (未驗證)

Is it column vector or is it?

George Amarantidis Koronaios (未驗證)

Actually, they shouldn't matter actually.

George Amarantidis Koronaios (未驗證)

Is it a column vector?

George Amarantidis Koronaios (未驗證)

Fine, fine, fine. OK.

George Amarantidis Koronaios (未驗證)

I'm not sure about this.

George Amarantidis Koronaios (未驗證)

Unfortunately, so my next step, Roberta, have any other ideas would be to take these two blocks in their own Simulink model?

Chen, Guan-Sheng J

OK.

George Amarantidis Koronaios (未驗證)

Just by themselves and try and debug it like that instead of having other stuff as well to ensure the error is coming from when you think where you think it's coming from.

George Amarantidis Koronaios (未驗證)

Yeah, that'd be my first suggestion.

Chen, Guan-Sheng J

Yeah. Thank you.

George Amarantidis Koronaios (未驗證)

But from the breakpoints it looks like it's a data type issue. As you're putting this inside your function.

Roberto Valenti (未驗證)

So click on the type.

Roberto Valenti (未驗證)

16 by 1 double at the moment, it's right there.

Roberto Valenti (未驗證)

So how was the other one?

Roberto Valenti (未驗證)

The other one worked.

Roberto Valenti (未驗證)

The one that you had on top with all zeros.

Chen, Guan-Sheng J

No, this one's not work.

Roberto Valenti (未驗證)

This one didn't work either.

Chen, Guan-Sheng J

Yeah, this one didn't work.

Roberto Valenti (未驗證)

OK.

Roberto Valenti (未驗證)

But there is something about this MX array. Why it says there is a dot F as found in MX array, there is no mixed functions here.

Roberto Valenti (未驗證)

So maybe.

Roberto Valenti (未驗證)

That MATLAB function was defined as a mixed function by mistake.

Chen, Guan-Sheng J

Yeah.

George Amarantidis Koronaios (未驗證)

And we are sure there's this block right.

George Amarantidis Koronaios (未驗證)

I'm just reiterating the same question that this is the block that's giving you the issue, OK?

Chen, Guan-Sheng J

Yeah.

Roberto Valenti (未驗證)

Did you just create this new matter function yourself or you copy it from APS one and then modify it?

Chen, Guan-Sheng J

I copied a previous line and modified.

Chen, Guan-Sheng J

I copied open droop control one and modify.

Roberto Valenti (未驗證)

OK.

Roberto Valenti (未驗證)

Parameter or something that?

Chen, Guan-Sheng J

OK.

Chen, Guan-Sheng J

OK.

George Amarantidis Koronaios (未驗證)

Yeah, perhaps in the workspace or in this kind of Simulink stuff.

George Amarantidis Koronaios (未驗證)

Yeah, that works.

George Amarantidis Koronaios (未驗證)

Well, that's the wrong the model workspace.

George Amarantidis Koronaios (未驗證)

We might say something.

George Amarantidis Koronaios (未驗證)

That asks us to convert it to Max.

Roberto Valenti (未驗證)

Yeah.

George Amarantidis Koronaios (未驗證)

Yeah. So make a new mudlab function.

George Amarantidis Koronaios (未驗證)

I again, I would suggest we do this in a separate Simulink diagram.

George Amarantidis Koronaios (未驗證)

Where we test things in isolation.

George Amarantidis Koronaios (未驗證)

Where you you you have your new function with the code that you have inside this one. So it controls the control.

George Amarantidis Koronaios (未驗證)

The the copy from the the code from this function into the into your new one.

George Amarantidis Koronaios (未驗證)

See how that if that works? If it doesn't work, just just like literally two blocks.

Chen, Guan-Sheng J

Yeah. OK.

Chen, Guan-Sheng J

I will try it.

George Amarantidis Koronaios (未驗證)

All righty.

Chen, Guan-Sheng J

Thank you.

Roberto Valenti (未驗證)

Sure.